HST-471

SERVICE MANUAL

AEP Model
UK Model
E Model
Australian Model

This set is the tunerdeck and amplifier section in SEN-R4720/R5750.

Manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

Tape deck	Model Name Using Similar Mechanism	HCD-GR8/RX90
Section	Tape Transport Mechanism Type	TCM-220WR2

SPECIFICATIONS

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
AEP, UK model:	522 – 1,611 kHz
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
Antenna	AM loop antenna, outdoor antenna terminals
Intermediate frequency	450 kHz

Amplifier section

European and Australian models:
(FRONT)

DIN power output	80 + 80 watts (at rear/center/woofer off at 1 kHz, 8 ohms)
Continuous RMS power output	100 + 100 watts (at rear/center/woofer off at 1 kHz, 10% THD, 8 ohms) 70 watts/ch (at SURROUND ON at 1 kHz, 10% THD, 8 ohms)
Music power output	150 + 150 watts (at rear/center/woofer off, 8 ohms)
(REAR)	70 watts (at front/center/woofer off at 1 kHz, 8 ohms)
(CENTER)	70 watts (at front/rear/woofer off at 1 kHz, 8 ohms)
(WOOFER)	30 watts (at front/rear/center off at 40 Hz, 4 ohms)

Other models:
Peak music power output 1,500 watts (total)

(FRONT)
Continuous RMS power output 90 + 90 watts (at rear/center/woofer off at 1 kHz, 5% THD, 8 ohms)
70 watts/ch (at SURROUND ON at 1 kHz, 10% THD, 8 ohms)

(REAR)	70 watts (at front/center/woofer off at 1 kHz, 8 ohms)
(CENTER)	70 watts (at front/rear/woofer off at 1 kHz, 6 ohms)
(WOOFER)	30 watts (at front/rear/center off at 40 Hz, 4 ohms)

Inputs
PHONO (phono jacks): sensitivity 2.5 mV, impedance 50 kilohms
CD (phono jacks): sensitivity 400 mV, impedance 50 kilohms
VIDEO1, 2 (phono jacks): sensitivity 250 mV, impedance 50 kilohms

Outputs
VIDEO1 (phono jacks): voltage 250 mV, impedance 1 kilohm
PHONES (stereo phone jack): accepts low and high impedance headphones

— Continued on next page —

CASSETTE DECK RECEIVER

MICROFILM

SONY®

Tape deck section

Track method	4-track, 2-channel stereo
Frequency response	
With DOLBY NR set to OFF	
TYPE-I tape:	60 – 13,000 Hz, ±3 dB
TYPE-II tape:	60 – 14,000 Hz, ±3 dB

Speaker

For the speaker system, refer to the speaker's manual.

General

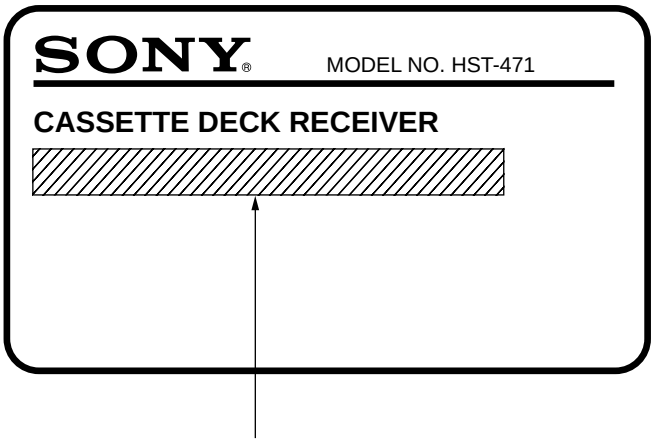
Power requirements	
AEP, UK model:	220 – 230 V AC, 50/60 Hz
Australian model:	240 V AC, 50 Hz
E, Singapore model:	110 – 120 V AC or 220 – 240 V AC, 50/60 Hz (adjustable with the voltage selector)
Power consumption	240 watts
Dimensions (w/h/d)	Approx. 430 × 330 × 355 mm
Mass	Approx. 10.5 kg
Supplied accessories:	Remote RM-U575 (1) Sony SUM-3 (NS) batteries (2) AM loop antenna (1) FM lead antenna (1)

Design and specifications are subject to change without notice.

MODEL IDENTFICATION

— Model Number Label —

MODEL IDENTIFICATION



AEP, UK : AC 220-230V ~ 50/60Hz 240W
Australian : AC 240V ~ 50Hz 240W
E, Singapore : AC 110-120, 220-240V selectable ~ 50/60Hz 240W

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT

TABLE OF CONTENTS

1. GENERAL

• Tuner/Amp Section ····· 3
• Deck Section ····· 3

2. MECHANICAL ADJUSTMENTS ····· 4

3. ELECTRICAL ADJUSTMENTS ····· 4

4. DIAGRAMS

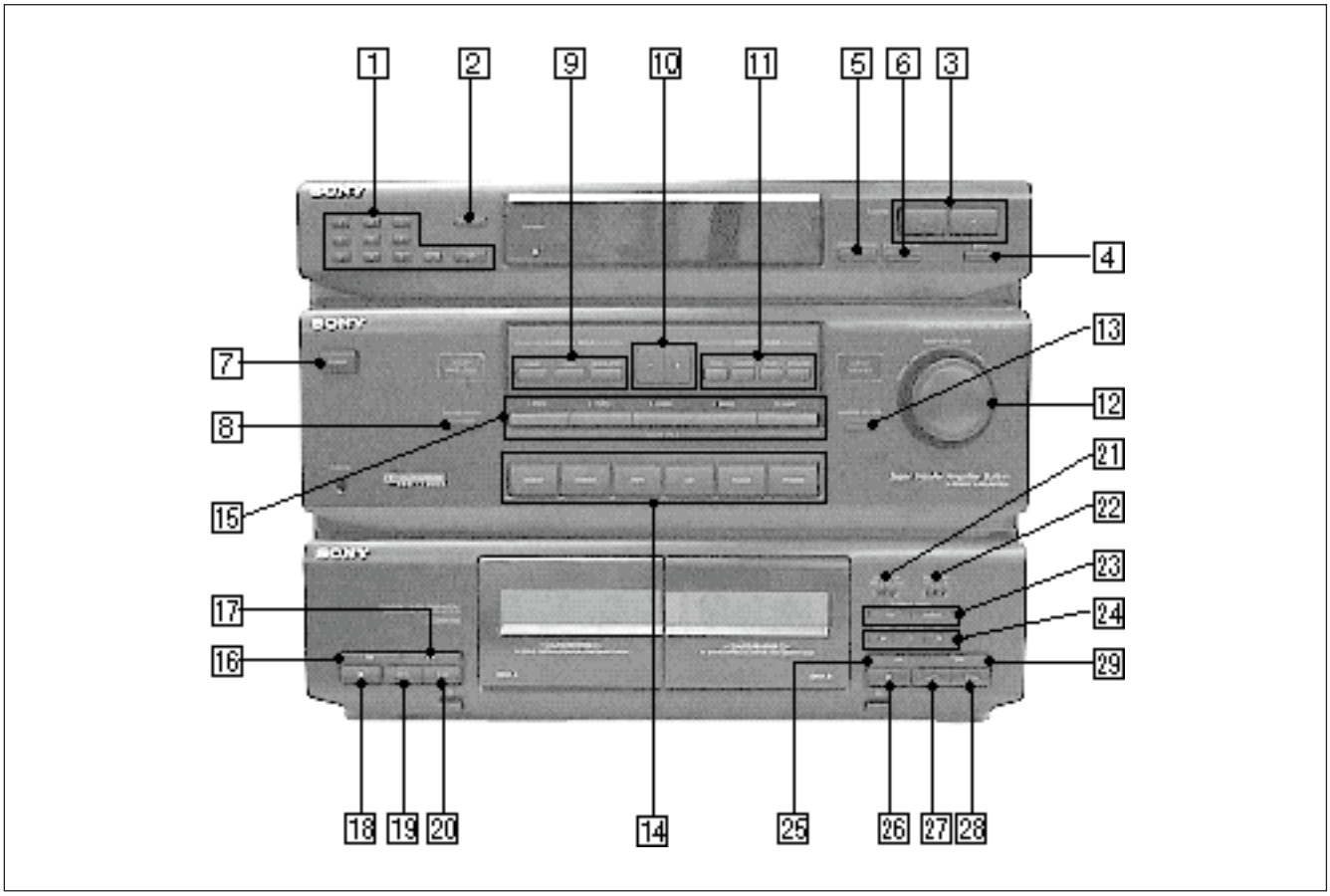
4-1. Circuit Boards Location ····· 8
4-2. Block Diagram ····· 9
4-3. Schematic Diagram — Deck Section — ····· 12
4-4. Printed Wiring Board — Deck Section — ····· 15
4-5. Printed Wiring Board — Main Section — ····· 17
4-6. Schematic Diagram — Main Section — ····· 19
4-7. Schematic Diagram — Display Section — ····· 23
4-8. Printed Wiring Board — Display Section — ····· 27
4-9. Printed Wiring Board — Power Section — ····· 30
4-10. Schematic Diagram — Power Section — ····· 33
4-11. IC Block Diagrams ····· 36
4-12. IC Pin Function ····· 38

5. REPAIR PARTS LIST

5-1. Main Section ····· 40
5-2. Front Panel Section ····· 41
5-3. Tape Mechanism Deck Section-1 (TCM-220WR2) ····· 42
5-4. Tapa Mechanism Deck Section-2 (TCM-220WR2) ····· 43

6. ELECTRICAL PARTS LIST ····· 44

SECTION 1
GENERAL



• TUNER/AMP SECTION

1 10 KEY
2 MEMORY
3 TUNING (–/+)
4 BAND
5 MEMORY SCAN
6 STEREO/MONO
7 POWER
8 CENTER MODE
9 SURROUND MODE (DOLBY/HALL/SIMULATED)
10 CONTROL MODE (–/+)
11 CONTROL MODE
(TONE/CENTER/REAR/WOOFER)
12 MASTER VOLUME
13 WOOFER ON/OFF
14 VIDEO 1/VIDEO 2/TAPE/CD/TUNER/PHONO
15 SOUND FIELD
(1 ROCK/2 POPS/3 CLASSIC/4 MOVIE/5 GAME)

• DECK SECTION

16 ◀◀ (DECK A)
17 ▶▶ (DECK A)
18 ■ (DECK A)
19 ◁ (DECK A)
20 ▷ (DECK A)
21 DIRECTION (DECK B)
22 DOLBY NR (DECK B)
23 DUBBING SPEED (HIGH/NORMAL) (DECK B)
24 REC (PAUSE/REC MUTE/REC) (DECK B)
25 ◀◀ (DECK B)
26 ■ (DECK B)
27 ◁ (DECK B)
28 ▷ (DECK B)
29 ▶▶ (DECK B)

SECTION 2
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   record/playback head, erase head, capstan, pinch roller, rubber belts, idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	36 to 61g•cm (0.50 – 0.84 oz•inch)
Forward Back Tension	CQ-102C	2 to 6g•cm (0.026 – 0.082 oz•inch)
Reverse	CQ-102RC	36 to 61g•cm (0.50 – 0.84 oz•inch)
Reverse Back Tension	CQ-102RC	2 to 6g•cm (0.026 – 0.082 oz•inch)
FF, REW	CQ-201B	61 to 143g•cm (0.85 – 1.98 oz•inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 100 g (3.53 oz)
Reverse	CQ-403R	more than 100 g (3.53 oz)

SECTION 3
ELECTRICAL ADJUSTMENTS

DECK SECTION | 0 dB=0.775V

1. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-ch.
7. Switches and controls should be set as follows unless otherwise specified.
8. Set to test mode. (Press key switch same time SPECTRUM ANALYZER | ENTER/NEXT and EFFECT ON/OFF button.)

• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0dB	Level Adjustment

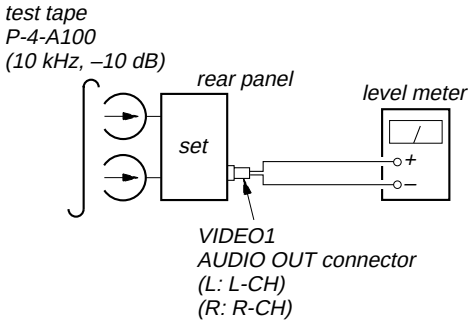
Record/Playback Head Azimuth Adjustment

DECK A | **DECK B**

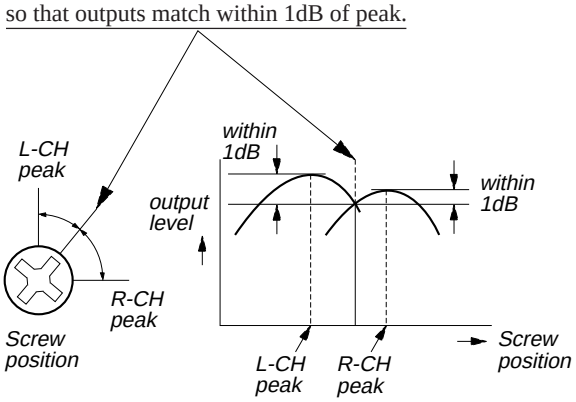
Note : Perform this adjustments for both decks. Remove the covers of cassette holders.

Procedure:

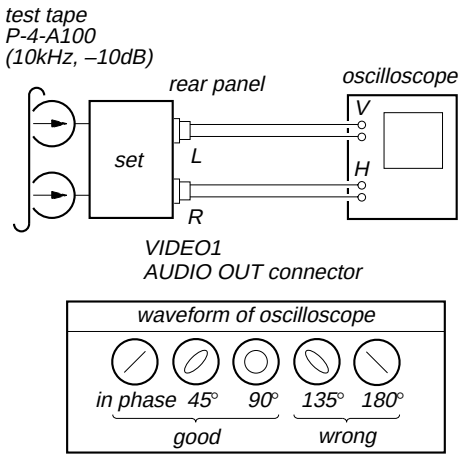
1. Mode: Playback (FWD)



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

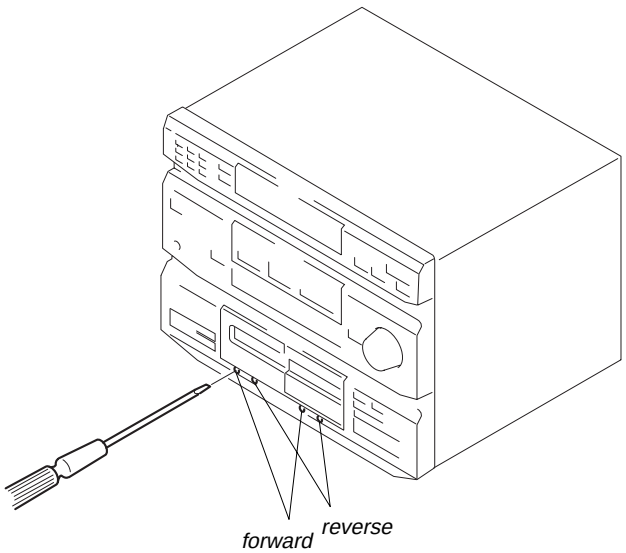


3. Mode: Playback (FWD)



4. Repeat steps 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the pats adjusted.

Adjustment Location: Record/Playback Head (Deck A and B) and main board.

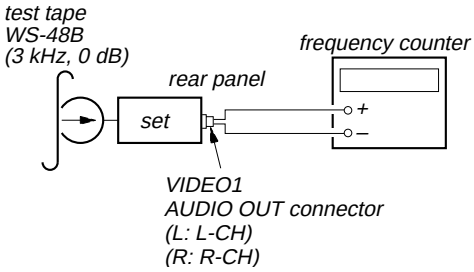


Tape Speed Adjustment DECK A

Note: Start the Tape Speed adjustment as below after setting to the test mode.

Procedure:

Mode: Playback (FWD)



1. Insert the WS-48B into the deck A and the blank tape into the deck B.
2. Press the REC button and ▷ button on the deck B. Then the deck B is at recording mode.
3. Set the deck A to playback mode.
4. Press the DUBBING SPEED HIGH button in playback mode. Then at HIGH speed mode.
5. Adjust RV652 on the AUDIO board do that frequency counter reads 6,000 ± 90 Hz.
6. Press the DUBBING SPEED NORMAL button in playback mode.
   Then at NORMAL speed mode.
7. Adjust RV651 on the AUDIO board so that frequency counter reads 3,000 ± 90Hz.
8. Frequency difference between deck A and deck B the beginning of the tape should be within ± 1.5 %.

Adjustment Location: AUDIO board

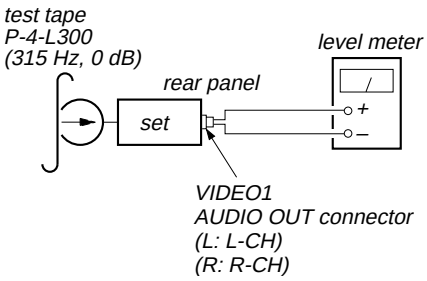
Sample Value of Wow and flutter

W.RMS (JIS) within 0.3%
(test tape: WS-48B)

Playback level Adjustment DECK A DECK B

Procedure:

Mode: Playback (FWD)



Deck A is RV311 (L-CH) and RV411 (R-CH), Deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level:

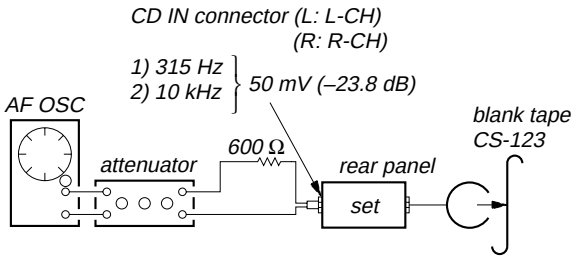
VIDEO1 AUDIO OUT PB level: 301.5 to 338.3 mV (–8.2 to –7.2 dB) level difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO and main boards

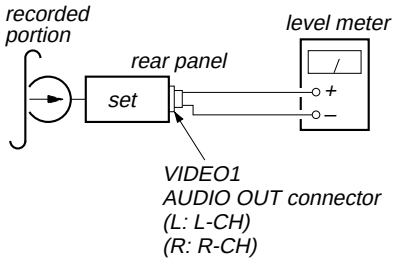
Record bias Current Adjustment **DECK B**

Procedure:

1. Mode: Record



2. Mode: Playback



Confirm playback the signal recorded in step 1 become adjustable limits as follows.

If these levels do not adjustable limits, adjustment the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1 and 2.

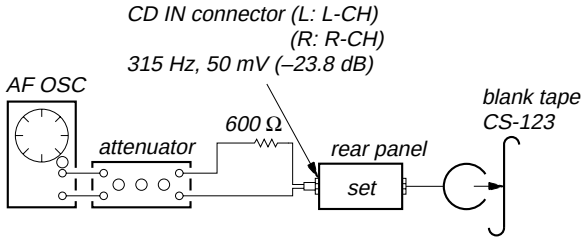
Adjustable limits: Playback output of 315 Hz to playback output of 10 kHz: ±0.5 dB

Adjustment Location: AUDIO and main boards

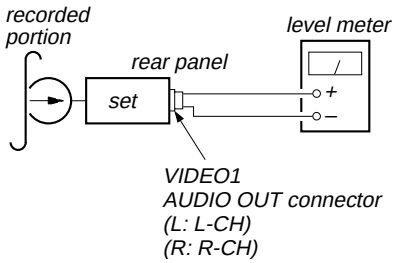
Record Level Adjustment **DECK B**

Procedure:

1. Mode: Record



2. Mode: Playback



Confirm playback the signal recorded in step 1 become adjustable limits as follows.

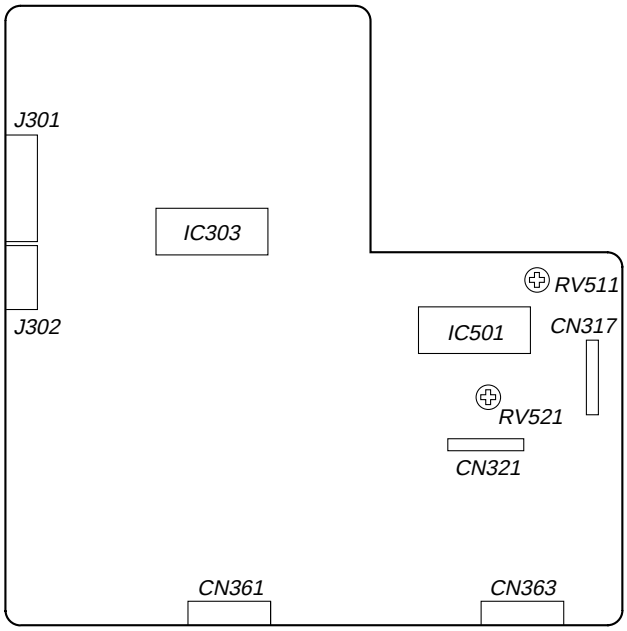
If these levels do not adjustable limits, adjustment the RV511 (L-CH) and RV521 (R-CH) on the main board to repeat steps 1 and 2.

Adjustable limits:

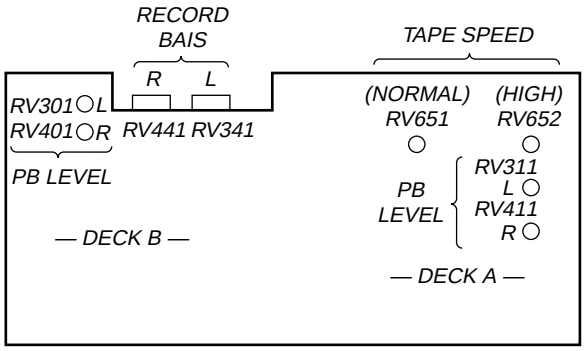
CN207 PB level: 47.3 to 53.1 mV (–24.3 to –23.3 dB)

Adjustment Location: main board

[MAIN BOARD] (Component Side)

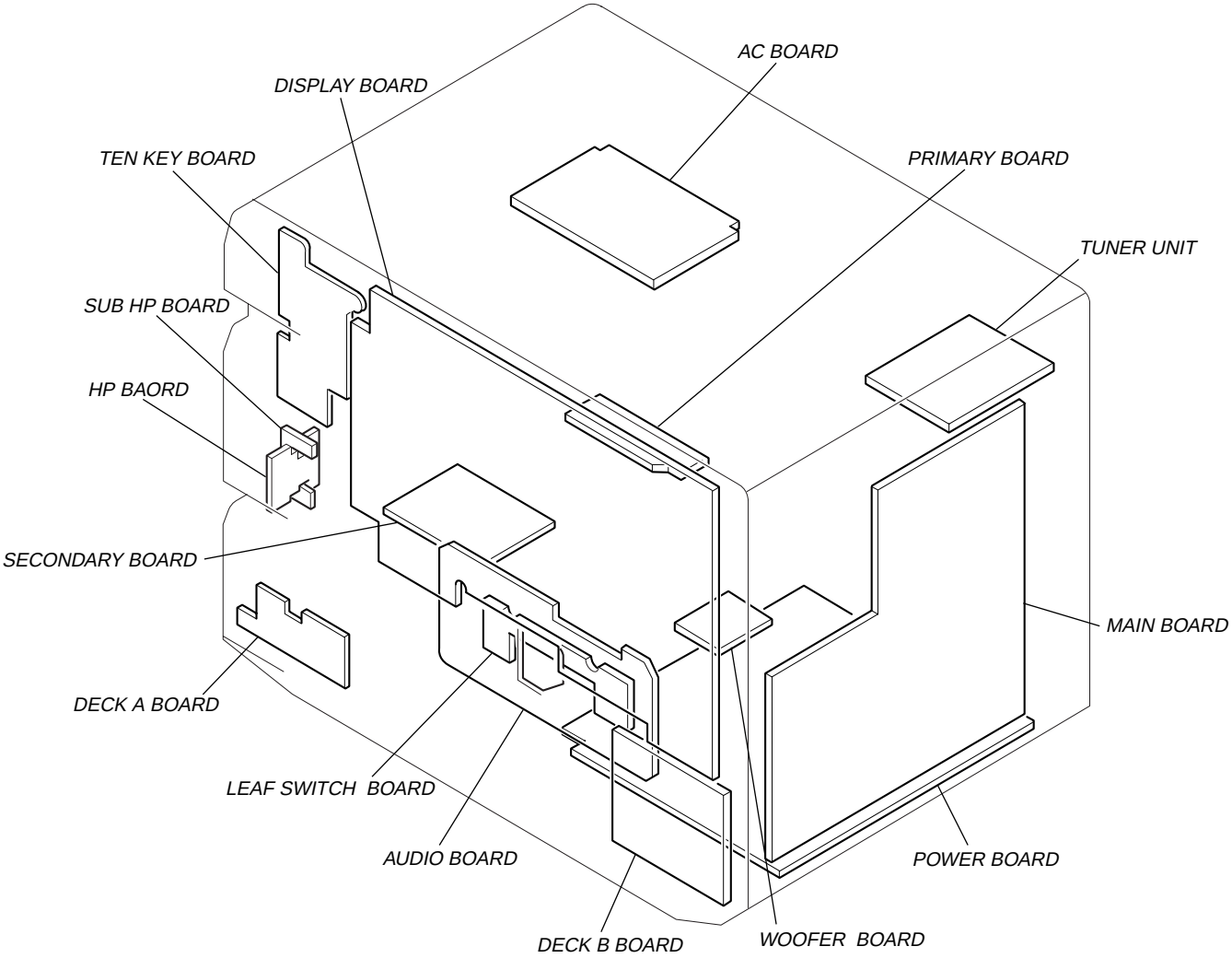


[AUDIO BOARD] (Conductor Side)

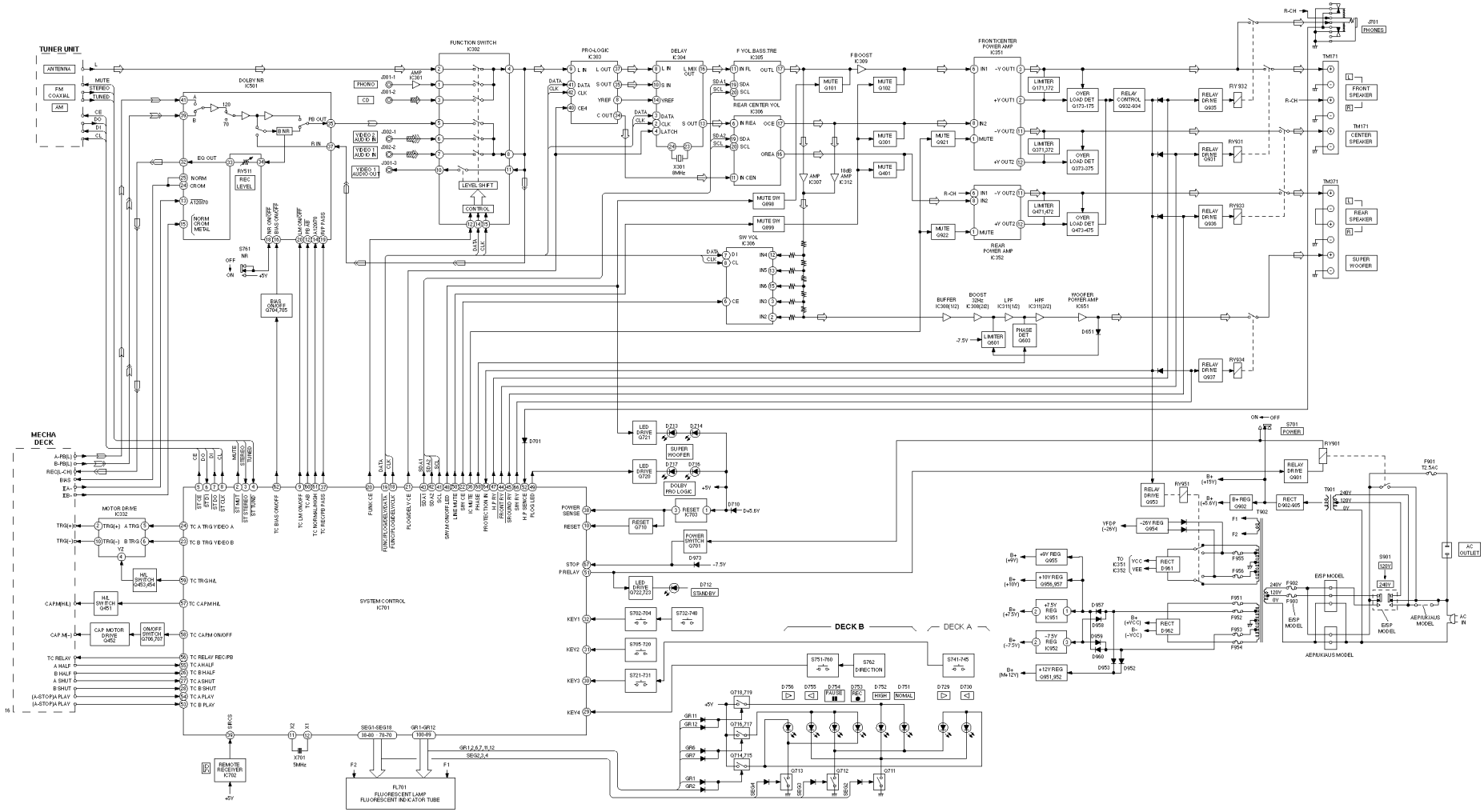


SECTION 4
DIAGRAMS

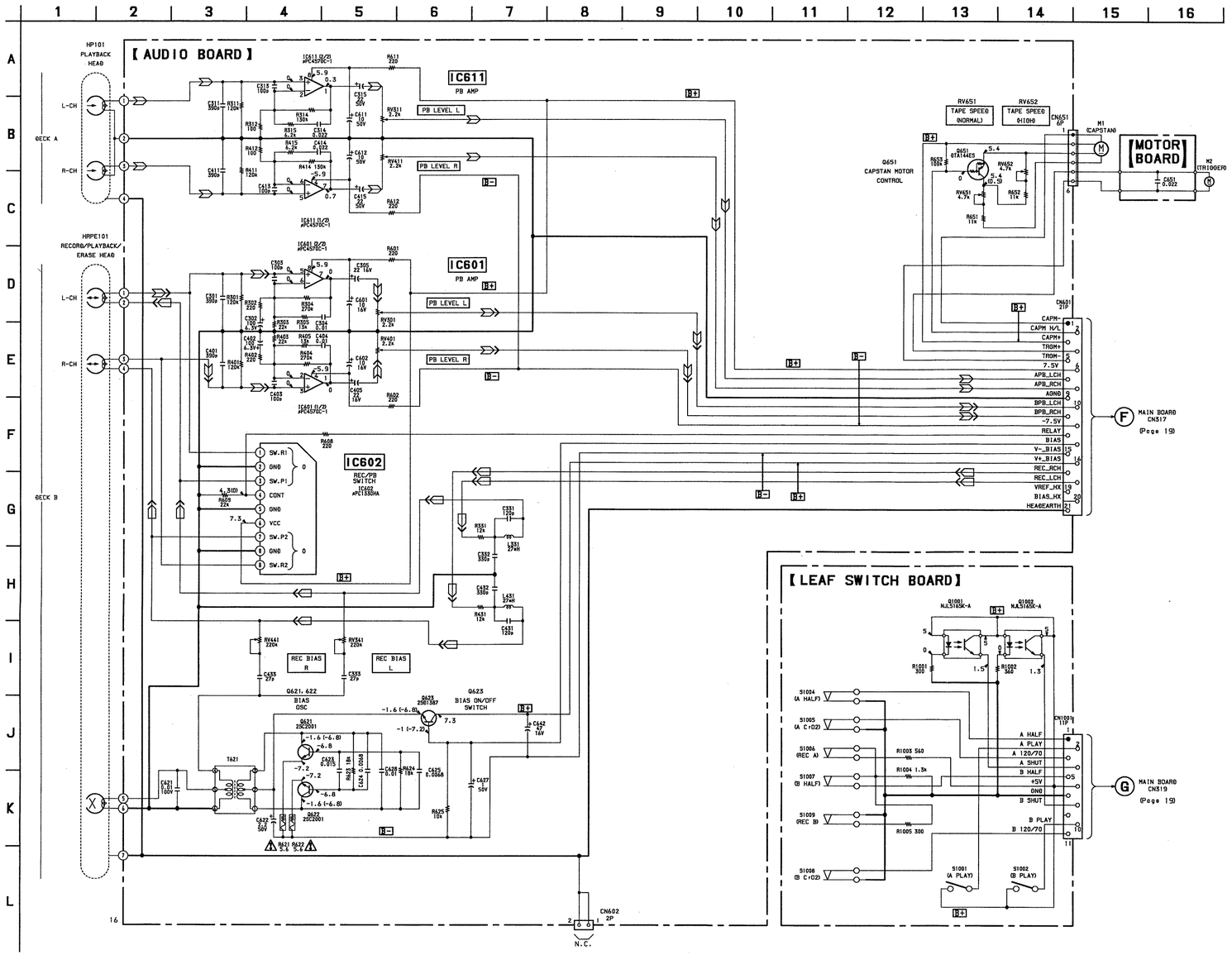
4-1. CIRCUIT BOARDS LOCATION



4-2. BLOCK DIAGRAM



4-3. SCHEMATIC DIAGRAM — DECK SECTION —

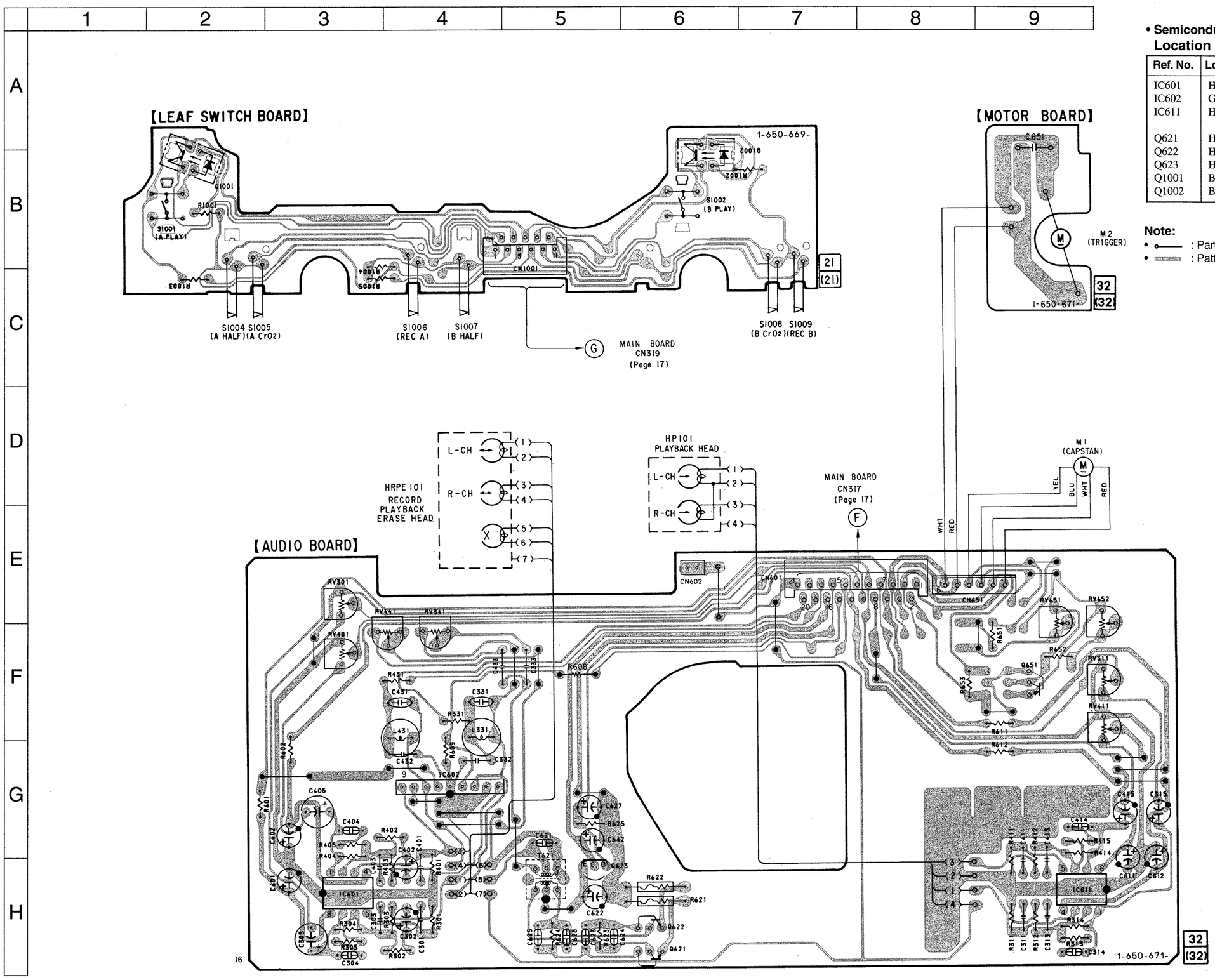


Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : Internal component.
- B+ : B+ Line.
- B- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path
  - : PB (DECK A)
  - : PB (DECK B)
  - : REC (DECK B)

4-4. PRINTED WIRING BOARD — DECK SECTION —



- **Semiconductor Location**

Ref. No.	Location
IC601	H-3
IC602	G-4
IC611	H-9
Q621	H-6
Q622	H-6
Q623	H-5
Q1001	B-1
Q1002	B-6

Note:

- ⟷ : Parts extracted from the component side.
- ▭ : Pattern on the side which is seen.

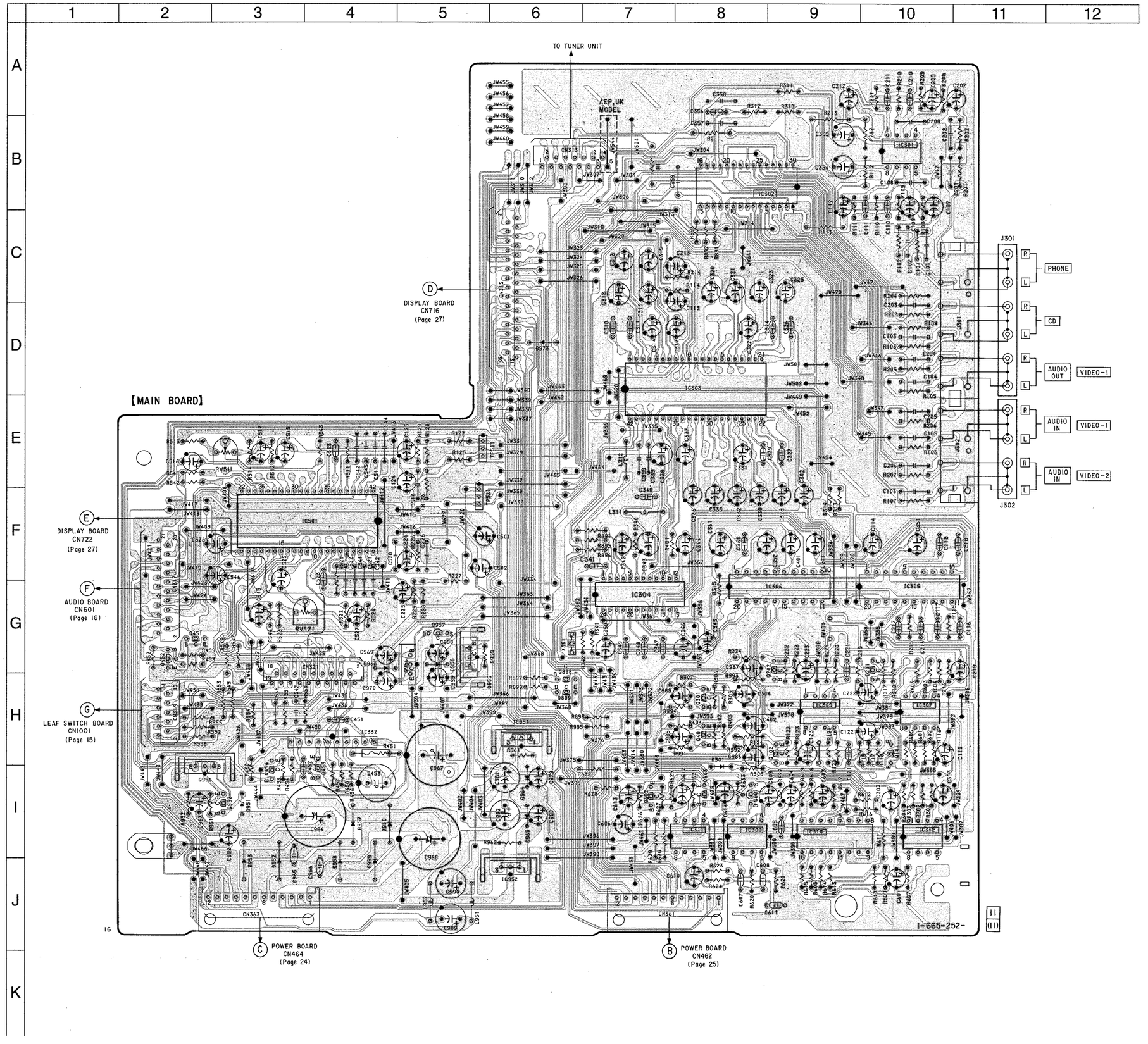
4-5. PRINTED WIRING BOARD — MAIN SECTION —

• **Semiconductor Location**

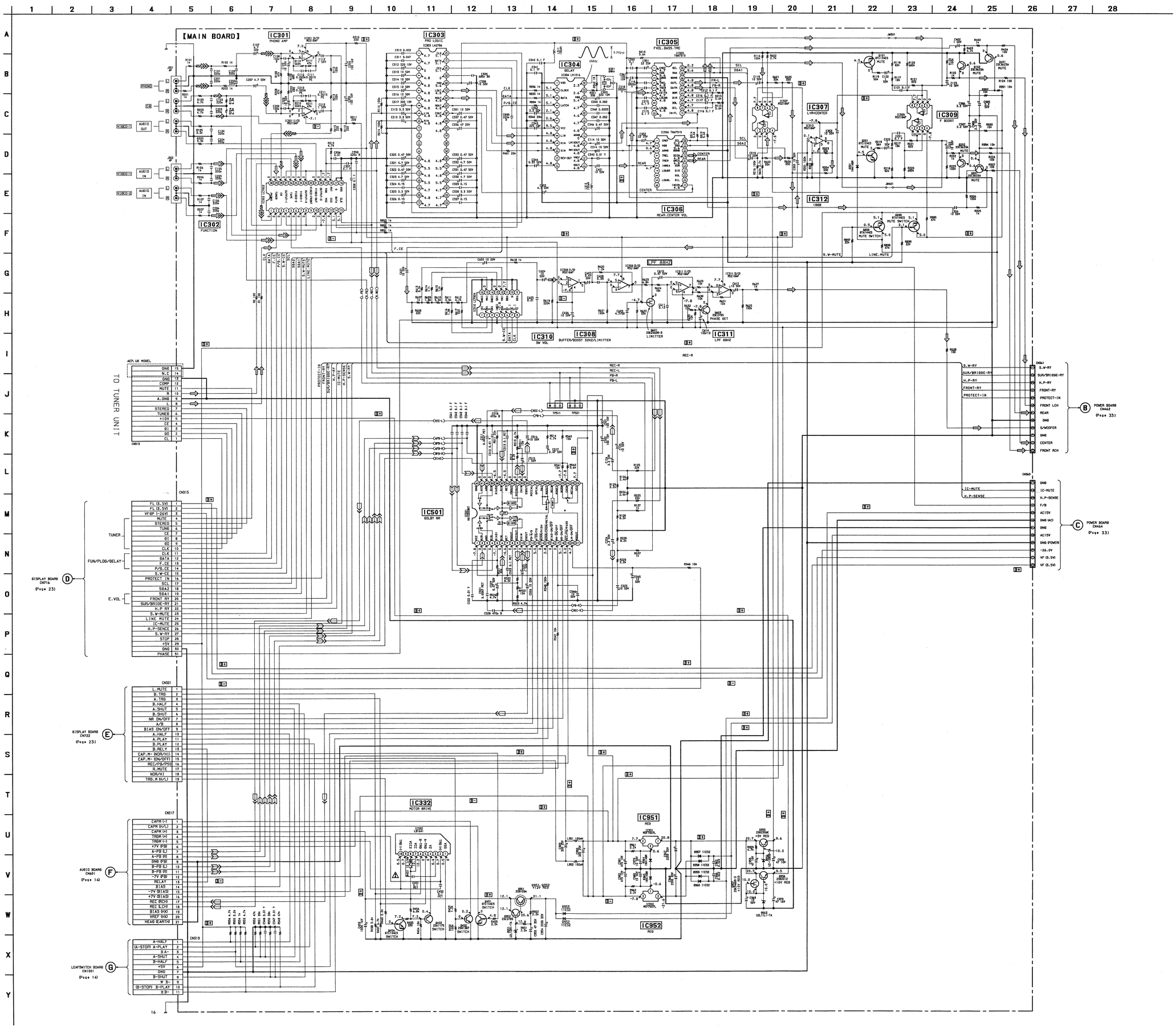
Ref. No.	Location
D301	H-8
D951	I-3
D952	J-3
D953	J-3
D956	G-5
D957	I-4
D958	J-4
D959	J-4
D960	I-4
D963	G-4
D964	I-6
D965	I-6
IC301	B-10
IC302	B-8
IC303	D-8
IC304	G-7
IC305	G-10
IC306	G-9
IC307	H-10
IC308	I-8
IC309	H-9
IC310	I-9
IC311	I-8
IC312	I-10
IC332	H-4
IC501	F-4
IC951	H-6
IC952	J-6
Q101	H-10
Q102	H-9
Q201	G-10
Q202	G-9
Q301	H-8
Q401	H-8
Q451	G-2
Q452	G-2
Q453	I-4
Q454	I-3
Q601	I-8
Q602	I-7
Q603	I-8
Q898	H-6
Q899	H-6
Q951	I-2
Q952	I-3
Q955	G-5
Q956	G-5
Q957	G-5

Note:

• ⟷ : Parts extracted from the component side.
• ▭ : Pattern on the side which is seen.



4-6. SCHEMATIC DIAGRAM — MAIN SECTION —



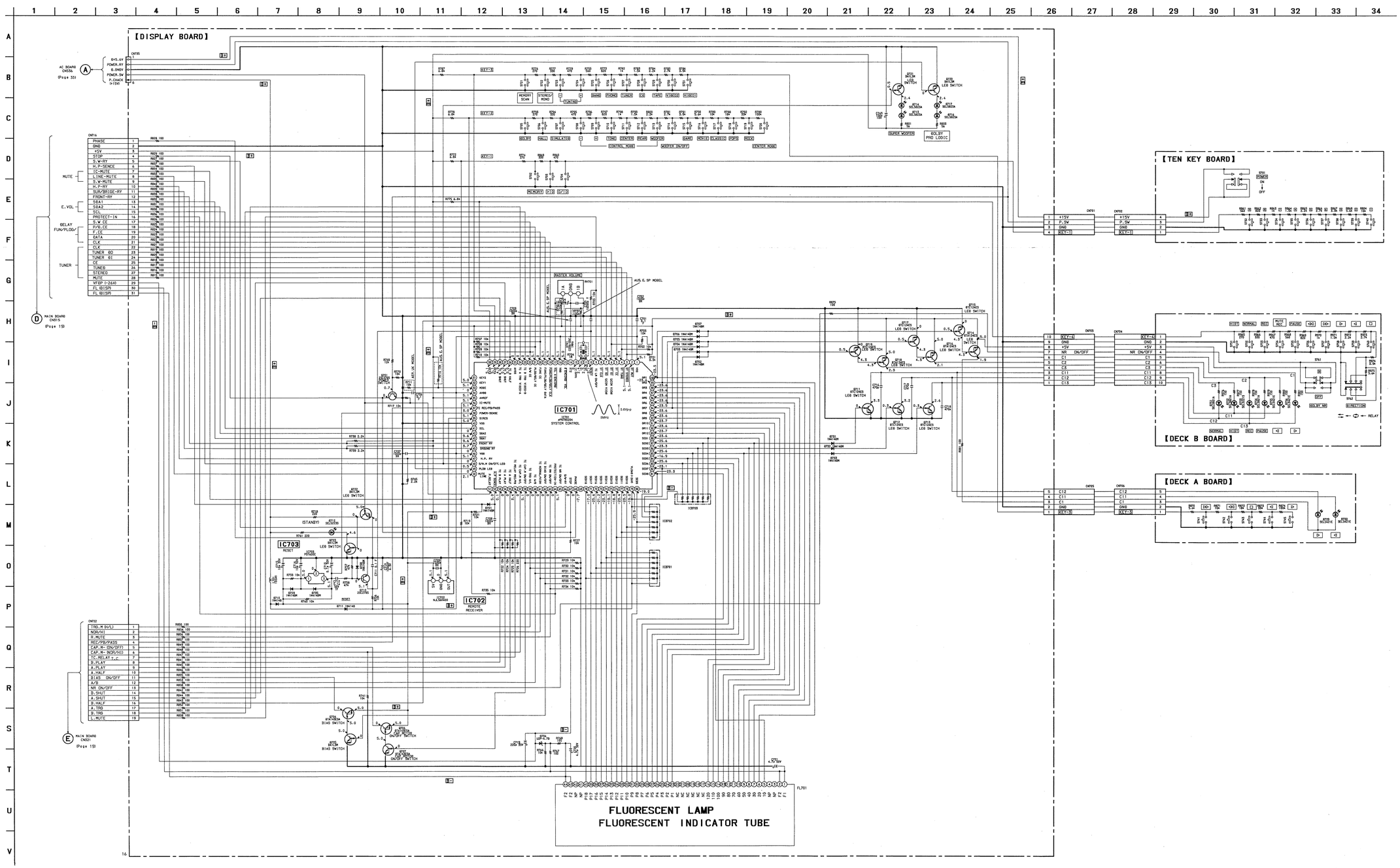
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- : fusible resistor

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- △ : Internal component.
- B+ : B+ Line.
- B− : B− Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path
  - : TUNER/AUDIO
  - : PB (DECK A)
  - : PB (DECK B)
  - : REC (DECK B)
  - : CD
  - : VIDEO-1 AUDIO
  - : VIDEO-2 AUDIO

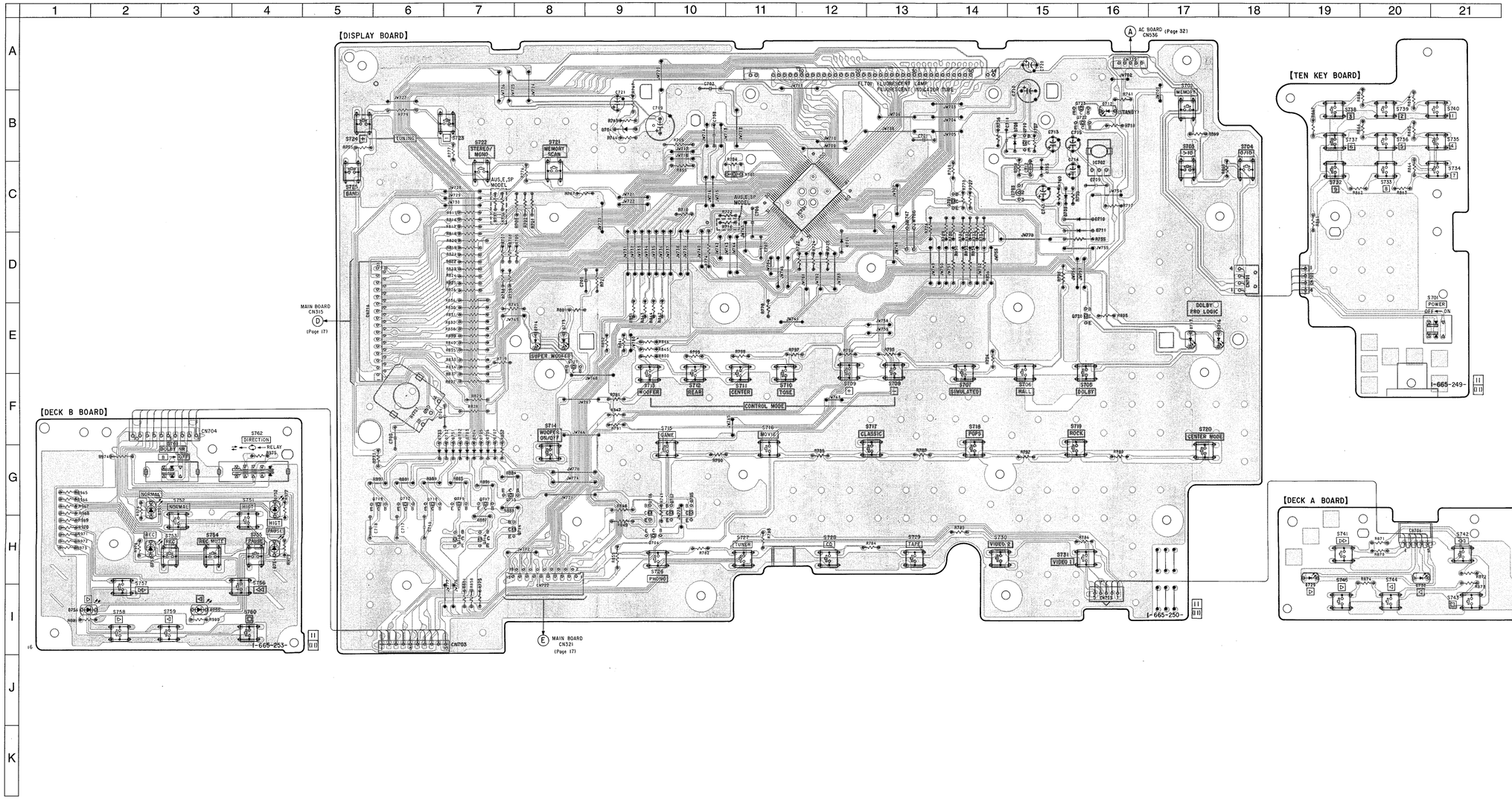
4-7. SCHEMATIC DIAGRAM — DISPLAY SECTION —



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : Internal component.
- B+ : B+ Line.
- B− : B− Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Abbreviation
  AUS : Australian
  SP : Singapore

4-8. PRINTED WIRING BOARD — DISPLAY SECTION —



• **Semiconductor Location**

Ref. No.	Location
D701	D-12
D702	G-7
D703	G-7
D704	G-7
D705	G-7
D706	G-7
D707	G-7
D708	B-15
D709	C-15
D710	C-16
D711	C-16
D712	B-16
D713	E-8
D714	E-8
D716	E-18
D717	E-17
D729	H-19
D730	H-20
D731	G-7
D732	G-7
D733	G-6
D734	B-9
D735	C-15
D751	G-2
D752	G-4
D753	H-2
D754	H-4
D755	I-3
D756	I-1
IC701	C-12
IC702	C-16
IC703	C-15
Q701	C-14
Q704	H-9
Q705	G-10
Q706	G-9
Q707	G-10
Q710	B-15
Q711	G-6
Q712	G-6
Q713	G-6
Q714	H-7
Q715	G-7
Q716	H-7
Q717	G-7
Q718	H-7
Q719	G-7
Q720	E-16
Q721	E-8
Q722	B-16
Q723	B-16

Note:

- ⟷ : Parts extracted from the component side.
- ═══ : Pattern on the side which is seen.
- Abbreviation
  AUS : Australian
  SP : Singapore

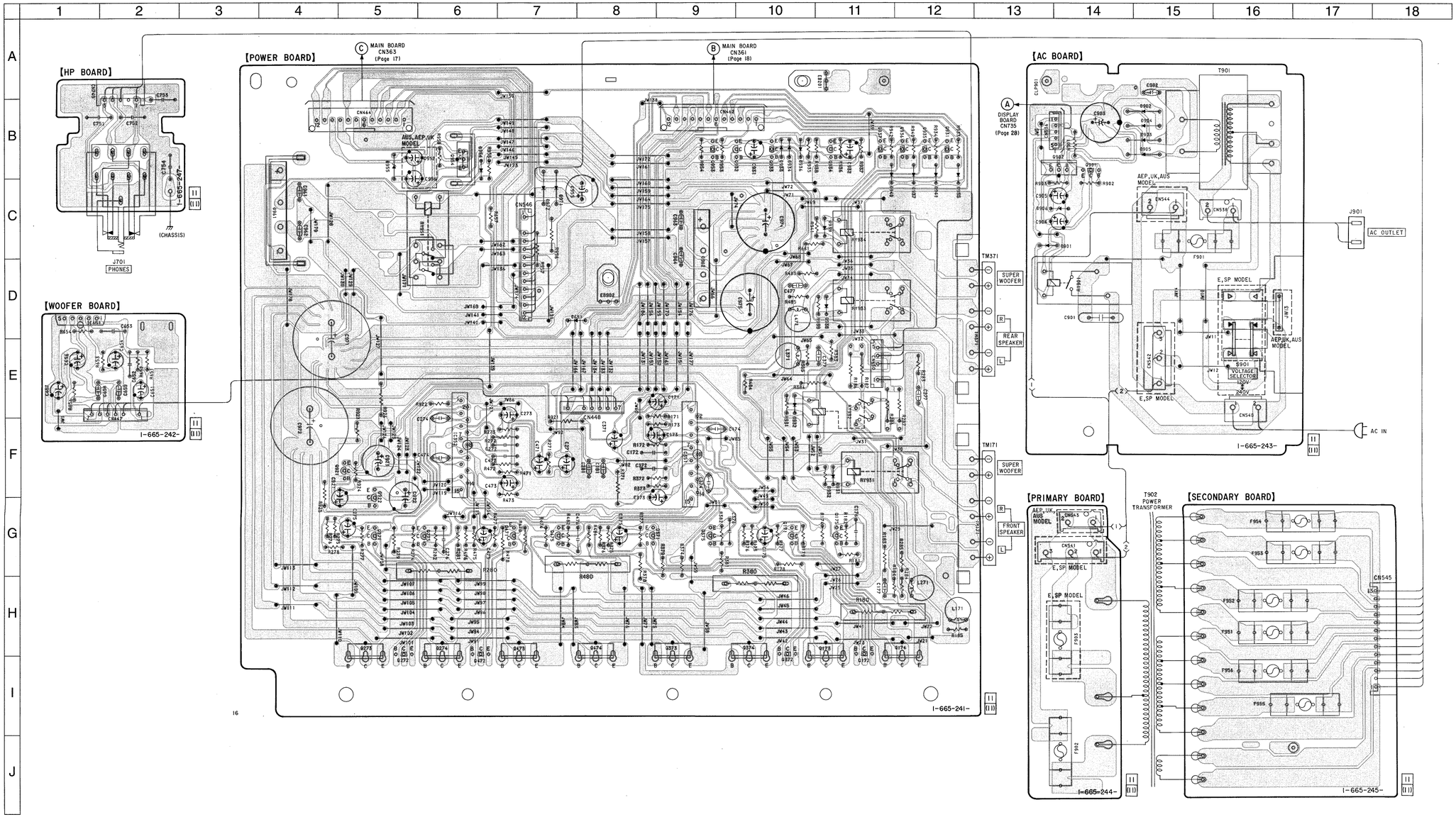
4-9. PRINTED WIRING BOARD — POWER SECTION —

• **Semiconductor Location**

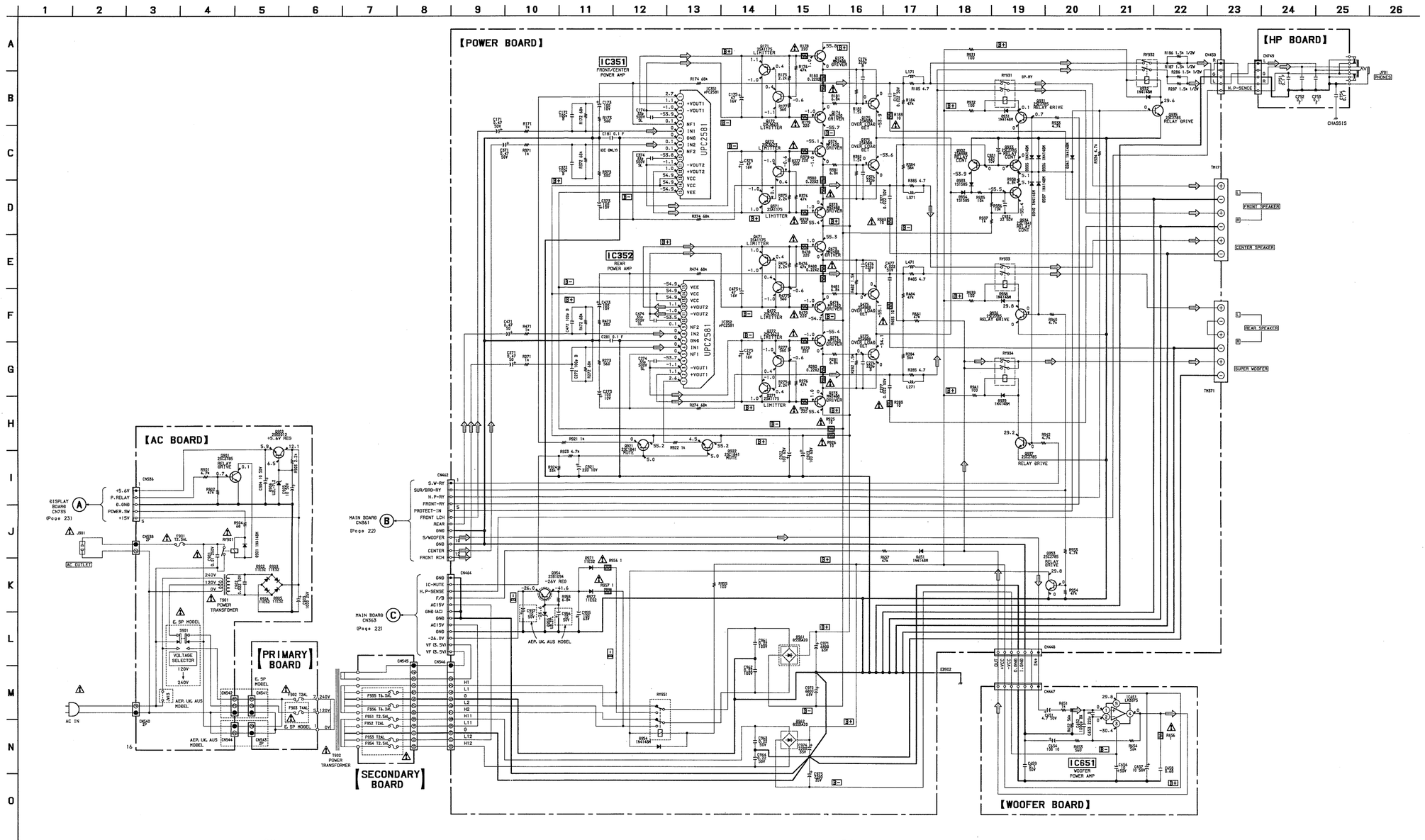
Ref. No.	Location
D651	D-7
D901	C-13
D902	B-15
D903	B-15
D904	B-15
D905	B-15
D906	C-14
D931	F-11
D932	E-10
D933	B-10
D934	B-10
D935	B-12
D936	B-10
D937	B-12
D938	D-11
D939	C-11
D940	B-11
D941	B-12
D954	B-6
D955	B-5
D961	C-4
D962	D-9
D971	C-7
D972	C-7
IC351	F-9
IC352	F-6
IC651	D-1
Q171	G-10
Q172	H-11
Q173	H-11
Q174	H-12
Q175	G-11
Q271	G-5
Q272	H-5
Q273	H-5
Q274	H-6
Q275	G-6
Q371	G-8
Q372	H-10
Q373	H-9
Q374	H-10
Q375	G-9
Q471	G-7
Q472	H-6
Q473	H-7
Q474	H-8
Q475	G-7
Q901	B-14
Q902	B-14
Q921	F-5
Q922	G-5
Q931	B-12
Q932	B-9
Q933	B-10
Q934	B-11
Q935	B-12
Q936	B-12
Q937	B-11
Q953	B-9
Q954	B-6

Note:

• ⟷ : Parts extracted from the component side.
• ▭ : Pattern on the side which is seen.
• Abbreviation
AUS : Australian
SP : Singapore



4-10. SCHEMATIC DIAGRAM — POWER SECTION —



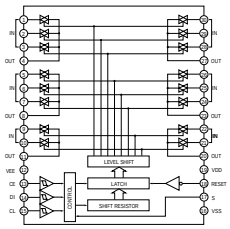
Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:

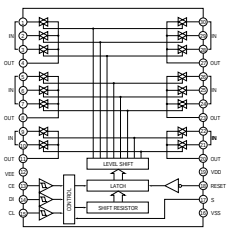
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : Internal component.
- B+ : B+ Line.
- B– : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Abbreviation
  AUS : Australian
  SP : Singapore
- Signal path
  ⇨ : AUDIO

4-11.IC BLOCK DIAGRAMS

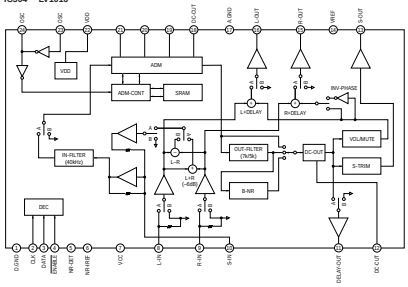
IC302 LC7822



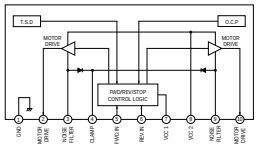
IC310 LC7824



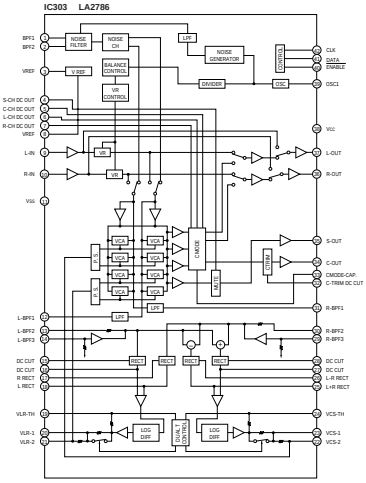
IC304 LV1016



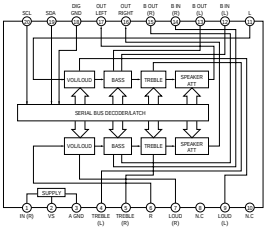
IC332 LB1641



IC303 LA2786



IC305, IC306 TDA7315



4-12.IC PIN FUNCTION

• IC701 SYSTEM CONTROL (μPD780204GF-024-3A)

Pin No.	Pin Name	I/O	Description
1	Vdd	—	5V
2	$\overline{\text{ST MUTE}}$	O	TUNER MUTE, H: ON.
3	$\overline{\text{ST STEREO}}$	I	TUNER STEREO
4	$\overline{\text{ST TUNED}}$	I	TUNER TUNED, L: TUNING.
5	$\overline{\text{ST CE}}$	O	TUNER PLL latch (LC72130).
6	$\overline{\text{ST DI}}$	I	TUNER PLL data in (LC72130).
7	$\overline{\text{ST DO}}$	O	TUNER PLL data out (LC72130).
8	$\overline{\text{ST CLK}}$	O	TUNER PLL clock (LC72130).
9	TC LINE MUTE	O	TC line mute, H: ON.
10	$\overline{\text{RESET}}$	I	Reset signal input
11	X2	O	X' tal (5MHz)
12	X1	I	X' tal (5MHz)
13	1C	—	Ground
14	XT2	—	OPEN.
15	$\overline{\text{VOLUME B}}$	I	Encoder input B.
16	Vdd	—	5V
17	$\overline{\text{VOLUME A}}$	I	Encoder input A.
18	$\overline{\text{TA CLK}}$	O	FUNCTION/PRO-LOGIC/DELAY/SW clock.
19	TA DATA	O	FUNCTION/PRO-LOGIC/DELAY/SW data out.
20	FUNC CE	O	FUNCTION (LC72130) latch.
21	PROG/DELAY CE	O	PROG (LA2786)/DELAY (LV1016) latch.
22	SW CE	O	S. WOOFER (LC7824) latch.
23	TC B TRG	O	Trigger motor control.
24	TC A TRG	O	Trigger motor control.
25	AVss	—	Ground
26	B HALF	I	B DECK half input.
27	A SHUT	I	A DECK reel pulse input.
28	B SHUT	I	B DECK reel pulse input.
29	KEY 4	I	Key input.
30	KEY 3	I	Key input.
31	KEY 2	I	Key input.
32	KEY 1	I	Key input.
33	MODE	I	Destination model identification input, H: E model.
34	AVdd	—	5V.
35	AVdd	—	5V.
36	IC MUTE	O	IC MUTE, L: ON.
37	TC REC/PB/PASS	O	TC REC/PB/PASS output. (HA12203NT).
38	POWER SENSE	I	POWER ON/OFF, H: ON.
39	SIRCS	I	SIRCS input.
40	Vss	—	Ground
41	SCL	O	Volume IC (TDA7315) clock.
42	SDA 2	I/O	Volume IC (TDA7315) data. (REAR/CENTER).
43	$\overline{\text{SDA 1}}$	I/O	Volume IC (TDA7315) data. (BASS/TRE).
44	$\overline{\text{FRONT - RY}}$	O	FRONT RELAY, H: ON.
45	$\overline{\text{SUR - RY/BRIDGE - RY}}$	O	SURROUND/BRIDGE RELAY, H: ON.
46	Vdd	—	5V.
47	H.P - RY	O	HEAD PHONE RELAY, H: ON.
48	S.W MUTE LED	O	S. WOOFER MUTE LED ON/OFF, H: ON.
49	PROG LED	O	PRO-LOGIC LED, H: ON.
50	LINE MUTE	O	LINE MUTE, L: ON.

Pin No.	Pin Name	I/O	Description
51	POWER - RY	O	POWER RELAY, H: ON.
52	$\overline{\text{H. P SENSE}}$	I	HEAD PHONE input, H: ON.
53	TC B PLAY	I	TC B deck play switch, H: PLAY.
54	TC A PLAY	I	TC A deck play switch, H: PLAY.
55	TA A HALF	I	TC A deck, half input.
56	TC RELAY	O	TC relay, H: ON.
57	TC CAP M. H/L	O	TC capstan motor H/L, H: LOW.
58	TC CAP M. ON/OFF	O	TC capstan motor ON/OFF, L: ON.
59	TC TRG H/L	O	TC TRG H/L, L: LOW.
60	TC A/B	O	TC PB A/B, H: B DECK (HA12203NT).
61	TC NORM/HIGH	O	TC NORM/HIGH, H: HIGH (HA12203NT).
62	TC BIAS	O	TC BIAS, H: ON (HA12203NT).
63	TC REC MUTE	O	TC REC MUTE, L: ON (HA12203NT).
64	PROTECTION - IN	I	PROTECTION - IN.
65	N.C	—	Not used. (Ground).
66	S.W -RY	O	S. WOOFER RELAY, H: ON.
67	POWER IN	I	POWER switch (push switch).
68	PHASE OUT	O	PHASE OUT, L: inverted.
69	N.C	—	Not used. (Ground).
70	SEGMENT 18	O	Fluorescent display tube.
71	SEGMENT 17	O	
72	SEGMENT 16	O	
73	SEGMENT 15	O	
74	SEGMENT 14	O	
75	SEGMENT 13	O	
76	SEGMENT 12	O	
77	SEGMENT 11	O	
78	SEGMENT 10	O	
79	V load	—	–26V
80	SEGMENT 9	O	Fluorescent display tube.
81	SEGMENT 8	O	
82	SEGMENT 7	O	
83	SEGMENT 6	O	
84	SEGMENT 5	O	
85	SEGMENT 4	O	
86	SEGMENT 3	O	
87	SEGMENT 2	O	
88	SEGMENT 1	O	
89	GRID 12	O	
90	GRID 11	O	
91	GRID 10	O	
92	GRID 9	O	
93	GRID 8	O	
94	GRID 7	O	
95	GRID 6	O	
96	GRID 5	O	
97	GRID 4	O	
98	GRID 3	O	
99	GRID 2	O	
100	GRID 1	O	

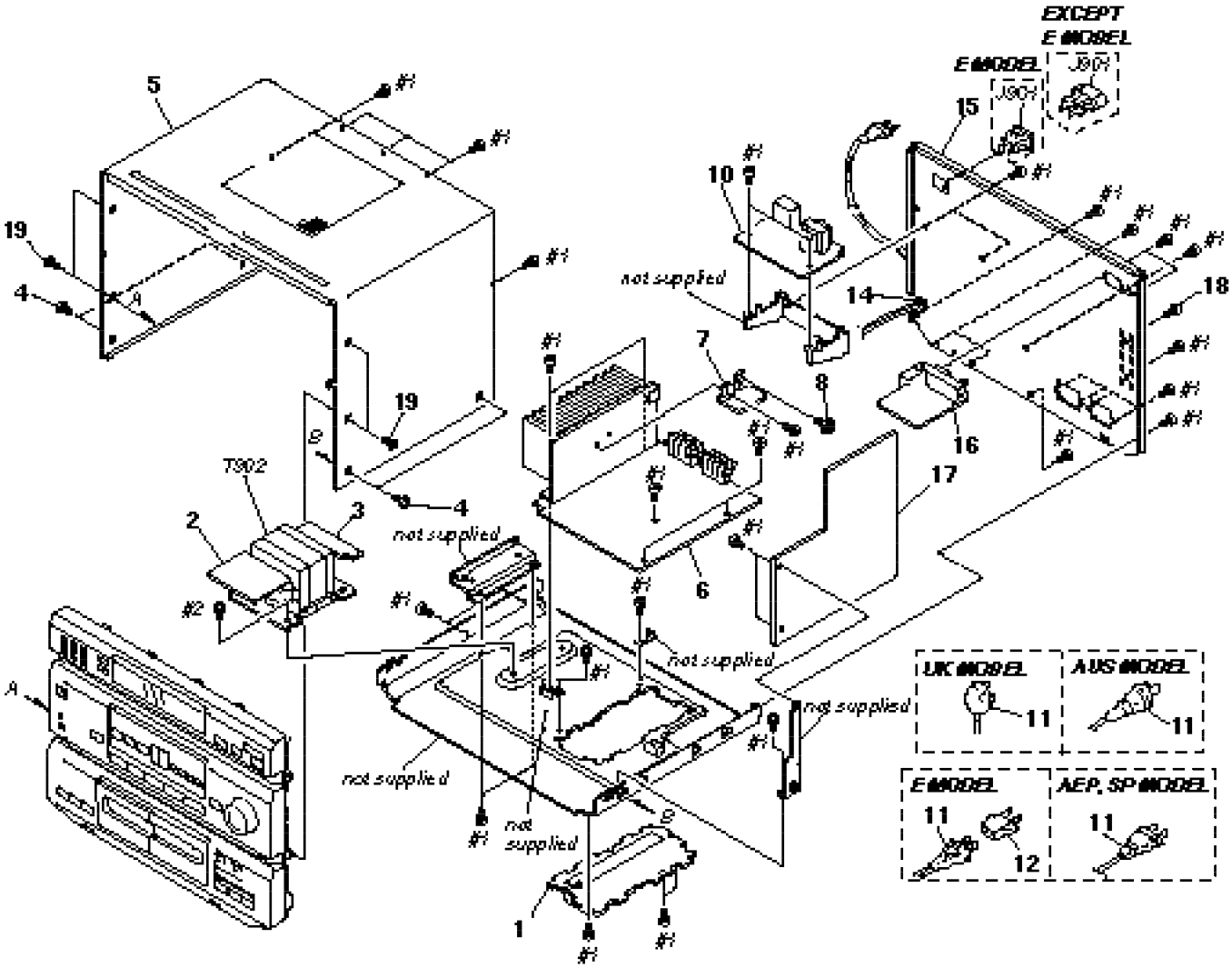
SECTION 5
REPAIR PARTS LIST

Note:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  AUS : Australian
  SP : Singapore

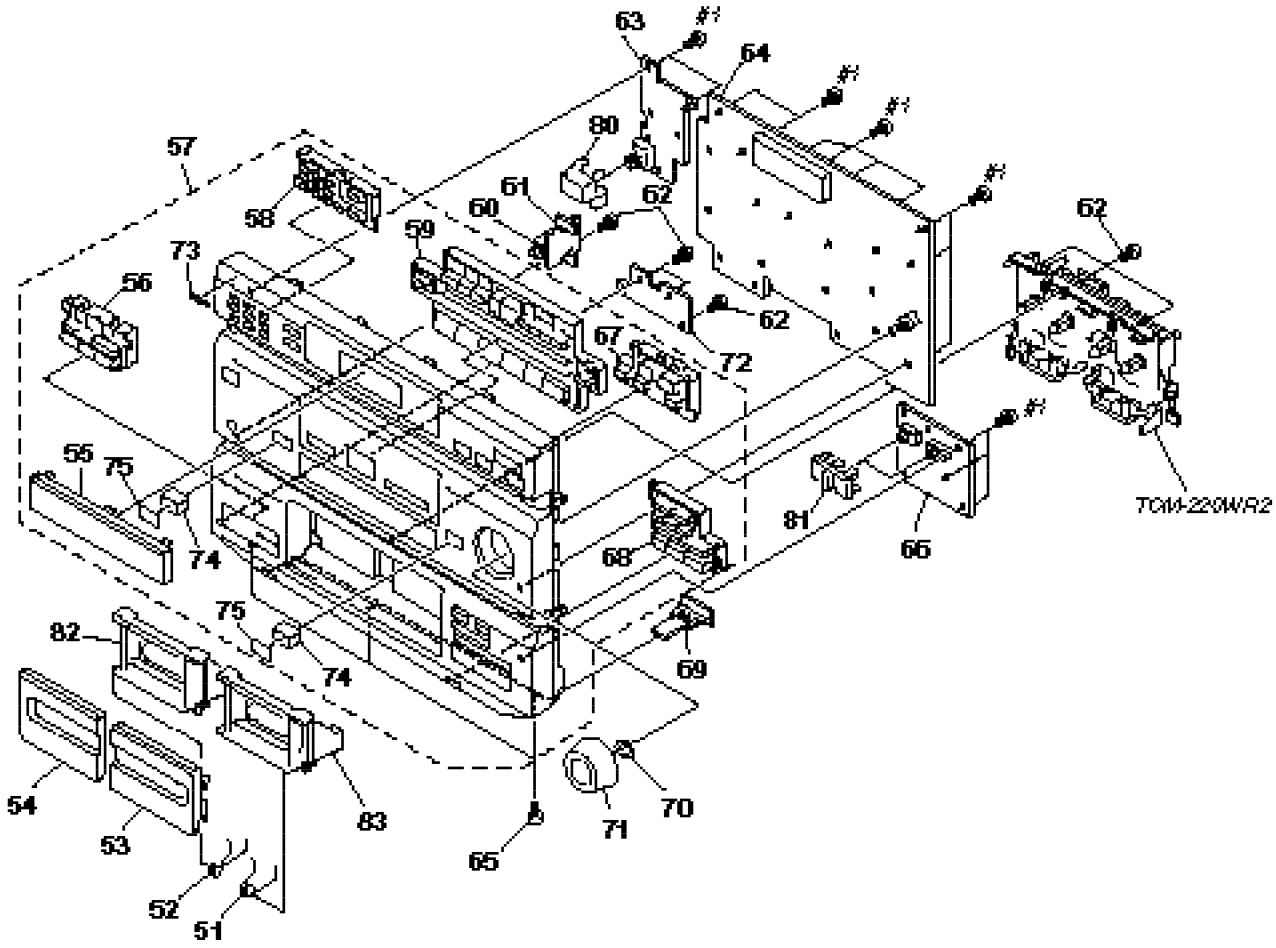
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

5-1. MAIN SECTION



Ref. No.	Part No.	Description	Remarks
* 1	4-990-048-01	PLATE, BOTTOM	
* 2	1-665-245-11	SECONDARY BOARD	
* 3	1-665-244-11	PRIMARY BOARD	
4	4-929-973-01	SCREW (CASE, 3 POINT)	
* 5	4-990-063-11	CASE	
* 6	A-4398-323-A	POWER BOARD, COMPLETE (AEP,UK,AUS)	
* 6	A-4398-351-A	POWER BOARD, COMPLETE (E,SP)	
* 7	1-665-242-11	WOOFER BOARD	
8	3-905-609-01	SCREW (TRANSISTOR)	
* 10	1-665-243-11	AC BOARD	
⚠11	1-575-653-11	CORD, POWER (E)	
⚠11	1-690-608-11	CORD, POWER (AUS)	
⚠11	1-751-520-11	CORD, POWER (UK)	
⚠11	1-769-744-11	CORD, POWER (AEP,SP)	
12	1-569-007-11	ADAPTOR, CONVERSION 2P (E)	
* 14	3-703-244-00	BUSHING (2104), CORD (AEP,UK,SP,AUS)	
14	3-703-571-11	BUSHING (S) (4516), CORD (E)	
* 15	4-990-064-01	PLATE, BACK (AEP)	
* 15	4-990-064-11	PLATE, BACK (UK)	
* 15	4-990-064-21	PLATE, BACK (E)	
* 15	4-990-064-31	PLATE, BACK (AUS)	
* 15	4-990-064-41	PLATE, BACK (SP)	
16	1-233-545-11	ENCAPSULATED COMPONENT (E,SP,AUS)	
16	1-693-381-11	TUNER UNIT (AEP,UK)	
* 17	A-4398-354-A	MAIN BOARD, COMPLETE (E,SP,AUS)	
* 17	A-4398-357-A	MAIN BOARD, COMPLETE (AEP,UK)	
18	3-704-515-01	SCREW (BV/RING)	
19	4-929-973-01	SCREW (CASE, 3 POINT)	
⚠J901	1-526-794-11	OUTLET, AC (AEP,UK,SP,AUS)	
⚠J901	1-526-882-00	OUTLET, AC (E)	
⚠T902	1-431-224-11	TRANSFORMER, POWER (AEP,UK,AUS)	
⚠T902	1-431-225-11	TRANSFORMER, POWER (E,SP)	

5-2. FRONT PANEL SECTION

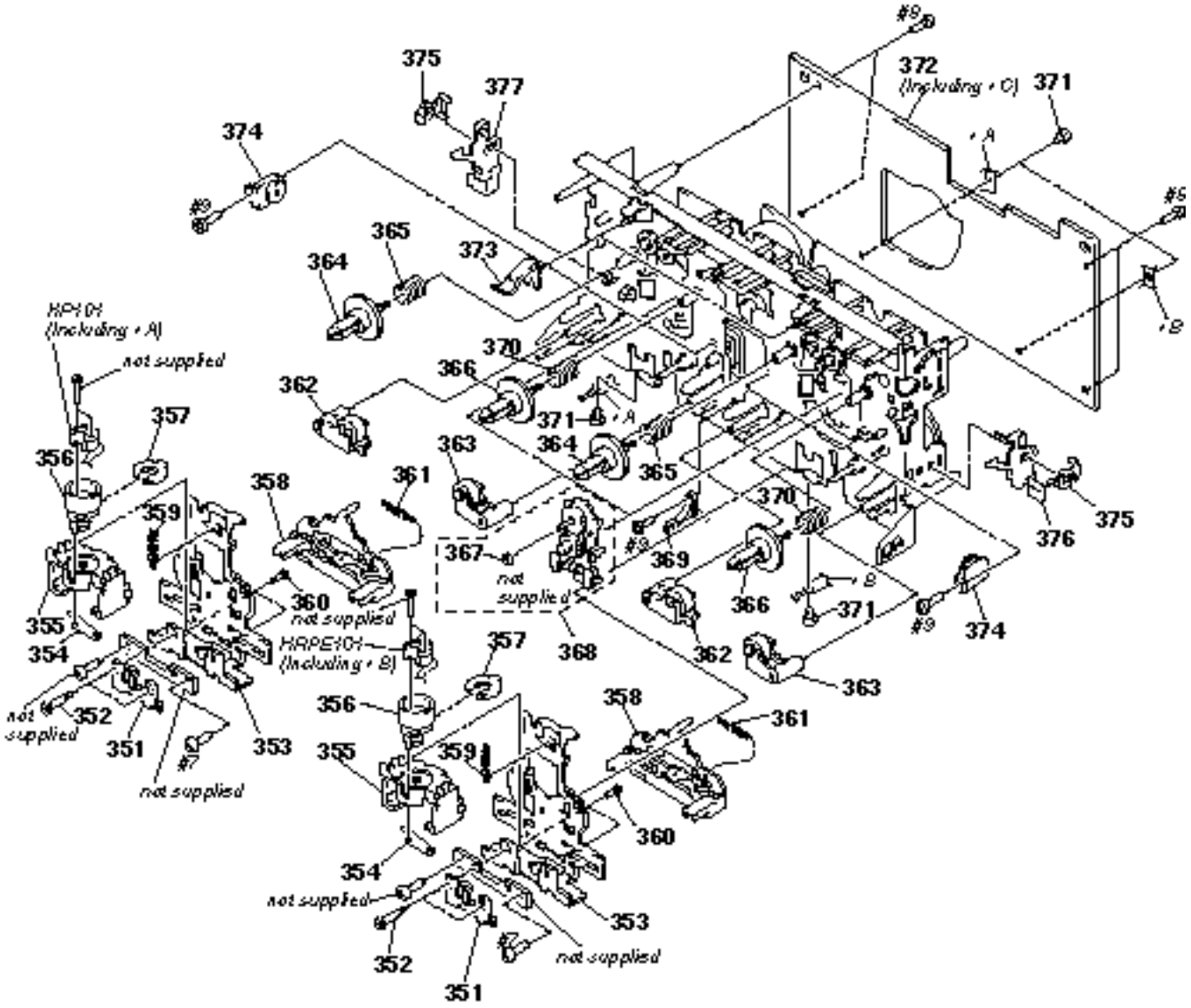


Ref. No.	Part No.	Description	Remarks
51	4-959-232-11	SPRING (R), TORSION	
52	4-959-231-11	SPRING (L), TORSION	
53	X-3371-404-1	LID (B) ASSY, CASSETTE	
54	X-3371-403-1	LID (A) ASSY, CASSETTE	
55	4-990-059-01	WINDOW (ST)	
56	4-990-053-01	BUTTON (TC-A)	
57	A-4384-805-A	PANEL ASSY, FRONT	
58	4-990-050-01	BUTTON (TEN KEY)	
59	4-990-052-01	BUTTON (FUNCTION)	
* 60	1-665-247-11	HP BOARD	
* 61	1-665-248-11	SUB HP BOARD	
62	4-951-620-01	SCREW (2.6X8), +BVTP	
* 63	1-665-249-11	TEN KEY BOARD	
* 64	A-4398-322-A	DISPLAY BOARD, COMPLETE (AEP,UK)	
* 64	A-4398-350-A	DISPLAY BOARD, COMPLETE (E,SP,AUS)	

Ref. No.	Part No.	Description	Remarks
65	4-929-973-01	SCREW (CASE, 3 POINT)	
* 66	1-665-253-11	DECK B BOARD	
67	4-990-051-01	BUTTON (+–)	
68	4-990-054-01	BUTTON (TC-B)	
69	3-931-427-01	BUTTON (EJ)	
70	3-350-426-01	SPRING, RING	
71	4-980-107-01	KNOB (VOL)	
* 72	1-665-251-11	DECK A BOARD	
73	3-008-600-11	EMBLEM (5-AR), SONY	
* 74	4-982-462-01	HOUSE, LED	
75	4-990-060-01	WINDOW (FUNCTION)	
80	4-980-109-01	BUTTON (P-M)	
81	4-990-058-01	KNOB (DOLBY)	
82	X-4945-690-1	HOLDER (L) ASSY, CASSETTE	
83	X-4945-691-1	HOLDER (R) ASSY, CASSETTE	

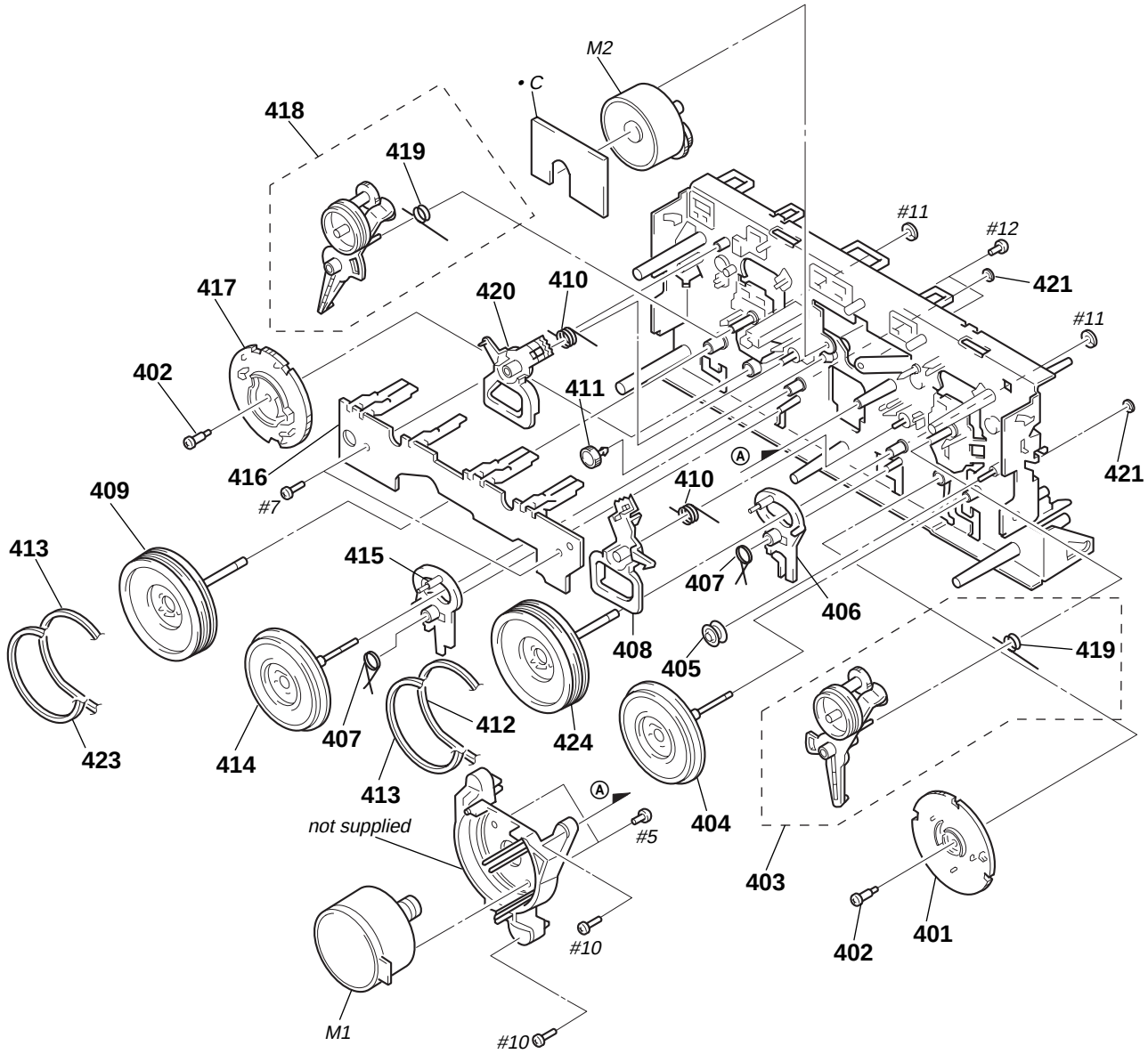
5-3. TAPE MECHANISM DECK SECTION-1 (TCM-220WR2)

• A : HEAD FLEXIBLE board (DECK A)
• B : HEAD FLEXIBLE board (DECK B)


HP101 (Including • A)
not supplied
HRPE101 (Including • B)
not supplied
not supplied
not supplied

5-4. TAPE MECHANISM DECK SECTION-2 (TCM-220WR2)

• C : MOTOR board



Ref. No.	Part No.	Description	Remarks
401	3-908-597-01	CAM (A)	
402	3-908-608-11	SCREW, STEP	
403	X-3372-930-1	ARM (A) ASSY, FR	
404	X-3370-169-1	FLYWHEEL (AR) ASSY	
405	3-928-047-01	PULLEY, TENSION	
406	3-908-599-01	LEVER (REV-A)	
407	3-908-601-01	SPRING (REV LEVER), TORSION	
408	3-908-603-01	LEVER (TRIGGER A)	
409	X-3367-593-1	FLYWHEEL (BF) ASSY	
410	3-908-605-01	SPRING (TRIGGER), TORSION	
411	3-908-609-01	GEAR, TRIGGER	
412	3-913-845-11	BELT (A)	
413	3-913-846-11	BELT (FR)	

Ref. No.	Part No.	Description	Remarks
414	X-3370-171-1	FLYWHEEL (BR) ASSY	
415	3-908-600-01	LEVER (REV-B)	
* 416	1-650-669-11	LEAF SWITCH BOARD	
417	3-908-598-01	CAM (B)	
418	X-3372-931-1	ARM (B) ASSY, FR	
419	3-914-111-01	SPRING (FR), TORSION	
420	3-908-604-01	LEVER (TRIGGER B)	
421	3-911-115-01	WASHER, STOPPER	
423	3-917-176-11	BELT (B)	
424	X-3370-172-1	FLYWHEEL (AF) ASSY	
M1	A-2004-409-A	MOTOR ASSY, CAPSTAN	
M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	

AC AUDIO

SECTION 6
ELECTRICAL PARTS LIST

Note:

When indicating parts by reference number, please include the board naame.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- Abbreviation
  AUS : Australian
  SP : Singapore
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

Ref. No.	Part No.	Description			Remarks
*	1-665-243-11	AC BOARD			
		********			
	1-533-293-11	FUSE HOLDER			
		< CAPACITOR >			
⚠C901	1-113-925-11	CERAMIC	0.01uF	20%	250V
C902	1-136-157-00	FILM	0.022uF	5%	50V
C903	1-126-942-61	ELECT	1000uF	20%	25V
C904	1-126-964-11	ELECT	10uF	20%	50V
C905	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CN536	1-568-954-11	PIN, CONNECTOR 5P			
CN538	1-564-321-00	PIN, CONNECTOR 2P			
CN540	1-564-321-00	PIN, CONNECTOR 2P			
* CN542	1-564-687-11	PIN, CONNECTOR 3P (E,SP)			
CN544	1-564-321-00	PIN, CONNECTOR 2P (AEP,UK,AUS)			
		< DIODE >			
D901	8-719-987-63	DIODE 1N4148M			
D902	8-719-200-82	DIODE 11ES2			
D903	8-719-200-82	DIODE 11ES2			
D904	8-719-200-82	DIODE 11ES2			
D905	8-719-200-82	DIODE 11ES2			
D906	8-719-000-78	DIODE UZL-7L2			
		< TERMINAL >			
* EB901	1-537-738-21	TERMINAL, EARTH (AEP,UK,AUS)			
		< FUSE >			
⚠F901	1-532-464-31	FUSE, TIME LAG (2.5A)			
		< TRANSISTOR >			
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q902	8-729-209-15	TRANSISTOR 2SD2012			
		< RESISTOR >			
R901	1-249-425-11	CARBON	4.7K	5%	1/4W F
R902	1-249-437-11	CARBON	47K	5%	1/4W
R903	1-249-421-11	CARBON	2.2K	5%	1/4W F
R904	1-249-403-11	CARBON	68	5%	1/4W F
		< RELAY >			
⚠RY901	1-755-018-11	RELAY			
		< SWITCH >			
⚠S901	1-571-309-11	SWITCH (VOLTAGE SELECTOR) (E,SP)			

Ref. No.	Part No.	Description			Remarks
		< TRANSFORMER >			
⚠T901	1-450-358-11	TRANSFORMER, POWER			
**********					
	A-2007-131-A	AUDIO BOARD, COMPLETE			
		**********			
		(Included MOTOR BOARD)			
		< CAPACITOR >			
C301	1-162-289-31	CERAMIC	390PF	10%	50V
C302	1-126-968-11	ELECT	100uF	20%	6.3V
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-130-483-00	MYLAR	0.01uF	5%	50V
C305	1-107-715-11	ELECT	22uF	20%	16V
C311	1-162-289-31	CERAMIC	390PF	10%	50V
C313	1-162-282-31	CERAMIC	100PF	10%	50V
C314	1-130-487-00	MYLAR	0.022uF	5%	50V
C315	1-126-233-11	ELECT	22uF	20%	50V
C331	1-137-427-11	FILM	120PF	5%	50V
C332	1-162-288-31	CERAMIC	330PF	10%	50V
C333	1-162-209-31	CERAMIC	27PF	5%	50V
C401	1-162-289-31	CERAMIC	390PF	10%	50V
C402	1-126-968-11	ELECT	100uF	20%	6.3V
C403	1-162-282-31	CERAMIC	100PF	10%	50V
C404	1-130-483-00	MYLAR	0.01uF	5%	50V
C405	1-107-715-11	ELECT	22uF	20%	16V
C411	1-162-289-31	CERAMIC	390PF	10%	50V
C413	1-162-282-31	CERAMIC	100PF	10%	50V
C414	1-130-487-00	MYLAR	0.022uF	5%	50V
C415	1-126-233-11	ELECT	22uF	20%	50V
C431	1-137-427-11	FILM	120PF	5%	50V
C432	1-162-288-31	CERAMIC	330PF	10%	50V
C433	1-162-209-31	CERAMIC	27PF	5%	50V
C601	1-104-396-11	ELECT	10uF	20%	16V
C602	1-104-396-11	ELECT	10uF	20%	16V
C611	1-124-907-11	ELECT	10uF	20%	50V
C612	1-124-907-11	ELECT	10uF	20%	50V
C621	1-137-150-11	FILM	0.01uF	5%	100V
C622	1-126-961-11	ELECT	2.2uF	20%	50V
C623	1-136-155-00	FILM	0.015uF	5%	50V
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V
C627	1-124-903-11	ELECT	1uF	20%	50V
C628	1-136-153-00	FILM	0.01uF	5%	50V
C642	1-104-664-11	ELECT	47uF	20%	16V
C651	1-161-494-00	CERAMIC	0.022uF		25V

Ref. No.	Part No.	Description				Remarks
		< CONNECTOR >				
CN601	1-695-382-31	PIN, CONNECTOR (PC BOARD) 21P				
CN602	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P				
* CN651	1-564-521-11	PLUG, CONNECTOR 6P				
		< IC >				
IC601	8-759-111-44	IC uPC4570C-1				
IC602	8-759-143-54	IC uPC1330HA				
IC611	8-759-111-44	IC uPC4570C-1				
		< COIL >				
L331	1-410-780-11	INDUCTOR 27mH				
L431	1-410-780-11	INDUCTOR 27mH				
		< TRANSISTOR >				
Q621	8-729-142-46	TRANSISTOR 2SC2001-LK				
Q622	8-729-142-46	TRANSISTOR 2SC2001-LK				
Q623	8-729-801-93	TRANSISTOR 2SD1387				
Q651	8-729-900-65	TRANSISTOR DTA144ES				
		< RESISTOR >				
R301	1-247-881-00	CARBON	120K	5%	1/4W	
R302	1-249-409-11	CARBON	220	5%	1/4W	F
R303	1-249-433-11	CARBON	22K	5%	1/4W	
R304	1-247-889-00	CARBON	270K	5%	1/4W	
R305	1-247-858-11	CARBON	13K	5%	1/4W	
R311	1-247-881-00	CARBON	120K	5%	1/4W	
R312	1-247-807-31	CARBON	100	5%	1/4W	
R314	1-247-882-11	CARBON	130K	5%	1/4W	
R315	1-247-850-11	CARBON	6.2K	5%	1/4W	
R331	1-249-430-11	CARBON	12K	5%	1/4W	
R401	1-247-881-00	CARBON	120K	5%	1/4W	
R402	1-249-409-11	CARBON	220	5%	1/4W	F
R403	1-249-433-11	CARBON	22K	5%	1/4W	
R404	1-247-889-00	CARBON	270K	5%	1/4W	
R405	1-247-858-11	CARBON	13K	5%	1/4W	
R411	1-247-881-00	CARBON	120K	5%	1/4W	
R412	1-247-807-31	CARBON	100	5%	1/4W	
R414	1-247-882-11	CARBON	130K	5%	1/4W	
R415	1-247-850-11	CARBON	6.2K	5%	1/4W	
R431	1-249-430-11	CARBON	12K	5%	1/4W	
R601	1-249-409-11	CARBON	220	5%	1/4W	F
R602	1-249-409-11	CARBON	220	5%	1/4W	F
R608	1-249-409-11	CARBON	220	5%	1/4W	F
R609	1-249-433-11	CARBON	22K	5%	1/4W	
R611	1-249-409-11	CARBON	220	5%	1/4W	F
R612	1-249-409-11	CARBON	220	5%	1/4W	F
⚠ R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
⚠ R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
R623	1-249-432-11	CARBON	18K	5%	1/4W	
R624	1-249-432-11	CARBON	18K	5%	1/4W	
R625	1-249-429-11	CARBON	10K	5%	1/4W	
R651	1-247-856-00	CARBON	11K	5%	1/4W	
R652	1-247-856-00	CARBON	11K	5%	1/4W	
R653	1-249-441-11	CARBON	100K	5%	1/4W	

Ref. No.	Part No.	Description				Remarks
		< VARIABLE RESISTOR >				
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV341	1-238-551-11	RES, ADJ, CARBON 220K				
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV441	1-238-551-11	RES, ADJ, CARBON 220K				
RV651	1-238-599-11	RES, ADJ, CARBON 4.7K				
RV652	1-238-599-11	RES, ADJ, CARBON 4.7K				
		< TRANSFORMER >				
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION				
**********						
*	1-665-251-11	DECK A BOARD				
		**********				
		< CONNECTOR >				
* CN706	1-568-943-11	PIN, CONNECTOR 5P				
		< DIODE >				
D729	8-719-046-43	DIODE SEL5421E-TP15 (FWD)				
D730	8-719-046-43	DIODE SEL5421E-TP15 (REV)				
		< RESISTOR >				
R870	1-249-426-11	CARBON	5.6K	5%	1/4W	
R871	1-249-429-11	CARBON	10K	5%	1/4W	
R872	1-249-432-11	CARBON	18K	5%	1/4W	
R873	1-249-435-11	CARBON	33K	5%	1/4W	
R874	1-249-441-11	CARBON	100K	5%	1/4W	
		< SWITCH >				
S741	1-554-303-21	SWITCH, TACTILE (FF)				
S742	1-554-303-21	SWITCH, TACTILE (REW)				
S743	1-554-303-21	SWITCH, TACTILE (STOP)				
S744	1-554-303-21	SWITCH, TACTILE (REV)				
S745	1-554-303-21	SWITCH, TACTILE (FWD)				
**********						
*	1-665-253-11	DECK B BOARD				
		**********				
		< CONNECTOR >				
* CN704	1-565-486-11	CONNECTOR, BOARD TO BOARD 10P				
		< DIODE >				
D751	8-719-046-39	DIODE SEL5821A-TH15 (NORMAL)				
D752	8-719-046-39	DIODE SEL5821A-TH15 (HIGH)				
D753	8-719-046-44	DIODE SEL5221S (REC)				
D754	8-719-046-39	DIODE SEL5821A-TH15 (PAUSE)				
D755	8-719-046-43	DIODE SEL5421E-TP15 (REV)				
D756	8-719-046-43	DIODE SEL5421E-TP15 (FWD)				
		< RESISTOR >				
R965	1-249-410-11	CARBON	270	5%	1/4W	F
R966	1-249-411-11	CARBON	330	5%	1/4W	
R967	1-249-413-11	CARBON	470	5%	1/4W	F
R968	1-249-414-11	CARBON	560	5%	1/4W	F
R969	1-249-416-11	CARBON	820	5%	1/4W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

DECK B DISPLAY

Ref. No.	Part No.	Description			Remarks
R970	1-249-417-11	CARBON	1K	5%	1/4W F
R971	1-249-419-11	CARBON	1.5K	5%	1/4W F
R972	1-249-421-11	CARBON	2.2K	5%	1/4W F
R973	1-249-422-11	CARBON	2.7K	5%	1/4W F
R974	1-249-424-11	CARBON	3.9K	5%	1/4W F
R975	1-249-426-11	CARBON	5.6K	5%	1/4W
R976	1-249-407-11	CARBON	150	5%	1/4W F
R977	1-249-407-11	CARBON	150	5%	1/4W F
R978	1-249-407-11	CARBON	150	5%	1/4W F
R979	1-249-407-11	CARBON	150	5%	1/4W F
R980	1-249-407-11	CARBON	150	5%	1/4W F
R981	1-249-407-11	CARBON	150	5%	1/4W F
		< SWITCH >			
S751	1-554-303-21	SWITCH, TACTILE (HIGH)			
S752	1-554-303-21	SWITCH, TACTILE (NORMAL)			
S753	1-554-303-21	SWITCH, TACTILE (REC)			
S754	1-554-303-21	SWITCH, TACTILE (REC MUTE)			
S755	1-554-303-21	SWITCH, TACTILE (PAUSE)			
S756	1-554-303-21	SWITCH, TACTILE (REW)			
S757	1-554-303-21	SWITCH, TACTILE (FF)			
S758	1-554-303-21	SWITCH, TACTILE (PLAY)			
S759	1-554-303-21	SWITCH, TACTILE (REV)			
S760	1-554-303-21	SWITCH, TACTILE (STOP)			
S761	1-572-624-11	SWITCH, SLIDE (DOLBY NR)			
S762	1-572-625-11	SWITCH, SLIDE (DIRECTION)			
**********					
*	A-4398-322-A	DISPLAY BOARD, COMPLETE (AEP,UK)			
		**********			
*	A-4398-350-A	DISPLAY BOARD, COMPLETE (E,SP,AUS)			
		**********			
*	4-974-291-01	HOLDER, FL TUBE			
		< CAPACITOR >			
C701	1-164-159-21	CERAMIC	0.1uF		50V
C702	1-162-294-31	CERAMIC	0.001uF	10%	50V
C703	1-162-294-31	CERAMIC	0.001uF	10%	50V
C704	1-162-306-11	CERAMIC	0.01uF	20%	16V
C705	1-162-306-11	CERAMIC	0.01uF	20%	16V
C706	1-164-159-21	CERAMIC	0.1uF		50V
C707	1-162-294-31	CERAMIC	0.001uF	10%	50V
C708	1-162-294-31	CERAMIC	0.001uF	10%	50V
C709	1-162-294-31	CERAMIC	0.001uF	10%	50V
C710	1-126-916-11	ELECT	1000uF	20%	6.3V
C711	1-164-159-21	CERAMIC	0.1uF		50V
C712	1-136-165-00	FILM	0.1uF	5%	50V
C713	1-136-165-00	FILM	0.1uF	5%	50V
C714	1-126-964-11	ELECT	10uF	20%	50V
C715	1-126-964-11	ELECT	10uF	20%	50V
C716	1-162-290-31	CERAMIC	470PF	10%	50V
C717	1-162-290-31	CERAMIC	470PF	10%	50V
C718	1-162-290-31	CERAMIC	470PF	10%	50V
C719	1-126-949-11	ELECT	220uF	20%	35V
C720	1-126-963-11	ELECT	4.7uF	20%	50V
C721	1-126-963-11	ELECT	4.7uF	20%	50V
C743	1-126-933-11	ELECT	100uF	20%	10V

Ref. No.	Part No.	Description	Remarks
		< CONNECTOR >	
* CN701	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
CN703	1-766-553-11	PLUG, CONNECTOR 10P	
CN716	1-695-380-31	PIN, CONNECTOR (PC BOARD) 19P (E,SP,AUS)	
CN716	1-695-392-31	PIN, CONNECTOR (PC BOARD) 31P (AEP,UK)	
CN722	1-695-380-31	PIN, CONNECTOR (PC BOARD) 19P (AEP,UK)	
CN722	1-695-392-31	PIN, CONNECTOR (PC BOARD) 31P (E,SP,AUS)	
		< DIODE >	
D701	8-719-987-63	DIODE 1N4148M	
D702	8-719-987-63	DIODE 1N4148M	
D703	8-719-987-63	DIODE 1N4148M	
D704	8-719-987-63	DIODE 1N4148M	
D705	8-719-987-63	DIODE 1N4148M	
D706	8-719-987-63	DIODE 1N4148M	
D707	8-719-987-63	DIODE 1N4148M	
D708	8-719-987-63	DIODE 1N4148M	
D709	8-719-987-63	DIODE 1N4148M	
D710	8-719-987-63	DIODE 1N4148M	
D711	8-719-987-63	DIODE 1N4148M	
D712	8-719-058-04	DIODE SEL5223S-TP15 (STANDBY)	
D713	8-719-058-64	DIODE SEL5823A-TP15 (SUPER WOOFWER)	
D714	8-719-058-64	DIODE SEL5823A-TP15 (SUPER WOOFWER)	
D716	8-719-058-64	DIODE SEL5823A-TP15 (DOLBY PRO LOGIC)	
D717	8-719-058-64	DIODE SEL5823A-TP15 (DOLBY PRO LOGIC)	
D731	8-719-987-63	DIODE 1N4148M	
D732	8-719-987-63	DIODE 1N4148M	
D733	8-719-987-63	DIODE 1N4148M	
D734	8-719-014-48	DIODE UZP-4.7B	
D735	8-719-987-63	DIODE 1N4148M	
		< FILTER >	
FL701	1-517-666-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC701	8-759-458-29	IC uPD780204GF-024-3BA	
IC702	8-759-459-84	IC NJL56H400	
IC703	8-759-165-80	IC PST600C-T	
		< COIL >	
L701	1-410-521-11	INDUCTOR 100uH	
		< TRANSISTOR >	
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q704	8-729-029-46	TRANSISTOR DTA143ESA	
Q705	8-729-116-17	TRANSISTOR BA1L3M-TP	
Q706	8-729-029-46	TRANSISTOR DTA143ESA	
Q707	8-729-116-17	TRANSISTOR BA1L3M-TP	
Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q711	8-729-900-36	TRANSISTOR DTC124ES	
Q712	8-729-900-36	TRANSISTOR DTC124ES	
Q713	8-729-900-36	TRANSISTOR DTC124ES	
Q714	8-729-900-63	TRANSISTOR DTA124ES	
Q715	8-729-900-36	TRANSISTOR DTC124ES	
Q716	8-729-900-63	TRANSISTOR DTA124ES	
Q717	8-729-900-36	TRANSISTOR DTC124ES	
Q718	8-729-900-63	TRANSISTOR DTA124ES	
Q719	8-729-900-36	TRANSISTOR DTC124ES	

Ref. No.	Part No.	Description			Remarks
Q720	8-729-116-17	TRANSISTOR	BA1L3M-TP		
Q721	8-729-116-17	TRANSISTOR	BA1L3M-TP		
Q722	8-729-116-17	TRANSISTOR	BA1L3M-TP		
Q723	8-729-116-17	TRANSISTOR	BA1L3M-TP		
		< RESISTOR >			
R701	1-247-843-11	CARBON	3.3K	5%	1/4W
R702	1-249-429-11	CARBON	10K	5%	1/4W
R703	1-249-429-11	CARBON	10K	5%	1/4W
R704	1-247-903-00	CARBON	1M	5%	1/4W
R705	1-249-429-11	CARBON	10K	5%	1/4W
R707	1-249-429-11	CARBON	10K	5%	1/4W
R708	1-249-429-11	CARBON	10K	5%	1/4W
R709	1-249-429-11	CARBON	10K	5%	1/4W
R710	1-249-429-11	CARBON	10K	5%	1/4W
R711	1-249-429-11	CARBON	10K	5%	1/4W (AEP,UK)
R712	1-249-429-11	CARBON	10K	5%	1/4W
R716	1-249-429-11	CARBON	10K	5%	1/4W (E,SP,AUS)
R717	1-249-429-11	CARBON	10K	5%	1/4W
R718	1-247-815-91	CARBON	220	5%	1/4W
R719	1-249-429-11	CARBON	10K	5%	1/4W
R721	1-249-429-11	CARBON	10K	5%	1/4W
R722	1-249-429-11	CARBON	10K	5%	1/4W
R724	1-249-429-11	CARBON	10K	5%	1/4W
R725	1-249-429-11	CARBON	10K	5%	1/4W
R726	1-247-815-91	CARBON	220	5%	1/4W
R727	1-249-429-11	CARBON	10K	5%	1/4W
R729	1-249-429-11	CARBON	10K	5%	1/4W
R730	1-249-429-11	CARBON	10K	5%	1/4W
R731	1-249-429-11	CARBON	10K	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R733	1-249-429-11	CARBON	10K	5%	1/4W
R734	1-249-429-11	CARBON	10K	5%	1/4W
R735	1-249-429-11	CARBON	10K	5%	1/4W
R736	1-249-441-11	CARBON	100K	5%	1/4W (E,SP,AUS)
R737	1-249-441-11	CARBON	100K	5%	1/4W (E,SP,AUS)
R738	1-249-421-11	CARBON	2.2K	5%	1/4W F
R739	1-249-421-11	CARBON	2.2K	5%	1/4W F
R741	1-249-429-11	CARBON	10K	5%	1/4W
R742	1-249-431-11	CARBON	15K	5%	1/4W
R745	1-249-421-11	CARBON	2.2K	5%	1/4W F
R755	1-249-414-11	CARBON	560	5%	1/4W F
R756	1-249-429-11	CARBON	10K	5%	1/4W
R757	1-249-437-11	CARBON	47K	5%	1/4W
R758	1-249-437-11	CARBON	47K	5%	1/4W
R759	1-249-429-11	CARBON	10K	5%	1/4W
R760	1-249-429-11	CARBON	10K	5%	1/4W
R761	1-247-815-91	CARBON	220	5%	1/4W
R766	1-249-429-11	CARBON	10K	5%	1/4W
R767	1-247-807-31	CARBON	100	5%	1/4W
R768	1-247-807-31	CARBON	100	5%	1/4W
R769	1-249-430-11	CARBON	12K	5%	1/4W
R770	1-249-429-11	CARBON	10K	5%	1/4W
R772	1-249-427-11	CARBON	6.8K	5%	1/4W F
R773	1-249-416-11	CARBON	820	5%	1/4W F
R774	1-249-410-11	CARBON	270	5%	1/4W F

Ref. No.	Part No.	Description			Remarks
R775	1-249-427-11	CARBON	6.8K	5%	1/4W F
R776	1-249-410-11	CARBON	270	5%	1/4W F
R777	1-249-411-11	CARBON	330	5%	1/4W
R778	1-249-427-11	CARBON	6.8K	5%	1/4W F
R779	1-249-413-11	CARBON	470	5%	1/4W F
R780	1-249-441-11	CARBON	100K	5%	1/4W
R781	1-249-422-11	CARBON	2.7K	5%	1/4W F
R782	1-249-417-11	CARBON	1K	5%	1/4W F
R783	1-249-419-11	CARBON	1.5K	5%	1/4W F
R784	1-249-421-11	CARBON	2.2K	5%	1/4W F
R785	1-249-422-11	CARBON	2.7K	5%	1/4W F
R786	1-249-424-11	CARBON	3.9K	5%	1/4W F
R787	1-249-427-11	CARBON	6.8K	5%	1/4W F
R788	1-249-432-11	CARBON	18K	5%	1/4W
R789	1-249-429-11	CARBON	10K	5%	1/4W
R790	1-249-426-11	CARBON	5.6K	5%	1/4W
R791	1-249-424-11	CARBON	3.9K	5%	1/4W F
R792	1-249-435-11	CARBON	33K	5%	1/4W
R793	1-249-410-11	CARBON	270	5%	1/4W F
R794	1-249-411-11	CARBON	330	5%	1/4W
R795	1-249-413-11	CARBON	470	5%	1/4W F
R796	1-249-414-11	CARBON	560	5%	1/4W F
R797	1-249-416-11	CARBON	820	5%	1/4W F
R798	1-249-417-11	CARBON	1K	5%	1/4W F
R799	1-249-419-11	CARBON	1.5K	5%	1/4W F
R800	1-249-421-11	CARBON	2.2K	5%	1/4W F
R801	1-247-807-31	CARBON	100	5%	1/4W
R802	1-247-815-91	CARBON	220	5%	1/4W
R803	1-247-807-31	CARBON	100	5%	1/4W
R804	1-249-429-11	CARBON	10K	5%	1/4W
R815	1-247-807-31	CARBON	100	5%	1/4W
R816	1-247-807-31	CARBON	100	5%	1/4W
R817	1-247-807-31	CARBON	100	5%	1/4W
R818	1-247-807-31	CARBON	100	5%	1/4W
R819	1-247-807-31	CARBON	100	5%	1/4W
R820	1-247-807-31	CARBON	100	5%	1/4W
R821	1-247-807-31	CARBON	100	5%	1/4W
R822	1-247-807-31	CARBON	100	5%	1/4W
R823	1-247-807-31	CARBON	100	5%	1/4W
R824	1-247-807-31	CARBON	100	5%	1/4W
R825	1-247-807-31	CARBON	100	5%	1/4W
R826	1-247-807-31	CARBON	100	5%	1/4W
R827	1-247-807-31	CARBON	100	5%	1/4W
R828	1-247-807-31	CARBON	100	5%	1/4W
R829	1-247-807-31	CARBON	100	5%	1/4W
R830	1-247-807-31	CARBON	100	5%	1/4W
R831	1-247-807-31	CARBON	100	5%	1/4W
R832	1-247-807-31	CARBON	100	5%	1/4W
R833	1-247-807-31	CARBON	100	5%	1/4W
R834	1-247-807-31	CARBON	100	5%	1/4W
R835	1-247-807-31	CARBON	100	5%	1/4W
R836	1-247-807-31	CARBON	100	5%	1/4W
R837	1-247-807-31	CARBON	100	5%	1/4W
R838	1-247-807-31	CARBON	100	5%	1/4W
R839	1-247-807-31	CARBON	100	5%	1/4W
R840	1-247-807-31	CARBON	100	5%	1/4W
R841	1-247-807-31	CARBON	100	5%	1/4W
R842	1-247-807-31	CARBON	100	5%	1/4W
R843	1-247-807-31	CARBON	100	5%	1/4W
R844	1-247-807-31	CARBON	100	5%	1/4W

DISPLAY | HP (SUB HP) | LEAF SWITCH | MAIN

Ref. No.	Part No.	Description			Remarks
R845	1-247-807-31	CARBON	100	5%	1/4W
R846	1-247-807-31	CARBON	100	5%	1/4W
R847	1-247-807-31	CARBON	100	5%	1/4W
R848	1-247-807-31	CARBON	100	5%	1/4W
R849	1-247-807-31	CARBON	100	5%	1/4W
R850	1-247-807-31	CARBON	100	5%	1/4W
R851	1-247-807-31	CARBON	100	5%	1/4W
R852	1-247-807-31	CARBON	100	5%	1/4W
R853	1-247-807-31	CARBON	100	5%	1/4W
R854	1-247-807-31	CARBON	100	5%	1/4W
R855	1-247-807-31	CARBON	100	5%	1/4W
R856	1-247-807-31	CARBON	100	5%	1/4W
R857	1-247-807-31	CARBON	100	5%	1/4W
R858	1-247-807-31	CARBON	100	5%	1/4W
R859	1-247-807-31	CARBON	100	5%	1/4W
R869	1-249-411-11	CARBON	330	5%	1/4W
R875	1-247-807-31	CARBON	100	5%	1/4W
R881	1-247-807-31	CARBON	100	5%	1/4W
		< VARIABLE RESISTOR >			
RV701	1-473-392-11	ENCODER, ROTARY (MASTER VOLUME)			
		< SWITCH >			
S702	1-554-303-21	SWITCH, TACTILE (MEMORY)			
S703	1-554-303-21	SWITCH, TACTILE (>10)			
S704	1-554-303-21	SWITCH, TACTILE (0/10)			
S705	1-554-303-21	SWITCH, TACTILE (DOLBY)			
S706	1-554-303-21	SWITCH, TACTILE (HALL)			
S707	1-554-303-21	SWITCH, TACTILE (SIMULATED)			
S708	1-554-303-21	SWITCH, TACTILE (–)			
S709	1-554-303-21	SWITCH, TACTILE (+)			
S710	1-554-303-21	SWITCH, TACTILE (TONE)			
S711	1-554-303-21	SWITCH, TACTILE (CENTER)			
S712	1-554-303-21	SWITCH, TACTILE (REAR)			
S713	1-554-303-21	SWITCH, TACTILE (WOOFER)			
S714	1-554-303-21	SWITCH, TACTILE (WOOFER ON/OFF)			
S715	1-554-303-21	SWITCH, TACTILE (GAME)			
S716	1-554-303-21	SWITCH, TACTILE (MOVIE)			
S717	1-554-303-21	SWITCH, TACTILE (CLASSIC)			
S718	1-554-303-21	SWITCH, TACTILE (POPS)			
S719	1-554-303-21	SWITCH, TACTILE (ROCK)			
S720	1-554-303-21	SWITCH, TACTILE (CENTER MODE)			
S721	1-554-303-21	SWITCH, TACTILE (MEMORY SCAN)			
S722	1-554-303-21	SWITCH, TACTILE (STEREO/MONO)			
S723	1-554-303-21	SWITCH, TACTILE (TUNING –)			
S724	1-554-303-21	SWITCH, TACTILE (TUNING +)			
S725	1-554-303-21	SWITCH, TACTILE (BAND)			
S726	1-554-303-21	SWITCH, TACTILE (PHONO)			
S727	1-554-303-21	SWITCH, TACTILE (TUNER)			
S728	1-554-303-21	SWITCH, TACTILE (CD)			
S729	1-554-303-21	SWITCH, TACTILE (TAPE)			
S730	1-554-303-21	SWITCH, TACTILE (VIDEO 2)			
S731	1-554-303-21	SWITCH, TACTILE (VIDEO 1)			
		< VIBRATOR >			
X701	1-760-489-11	VIBRATOR, CERAMIC 1MHz			

****

Ref. No.	Part No.	Description			Remarks
*	1-665-247-11	HP BOARD			
		********			
*	1-665-248-11	SUB HP BOARD			
		< CAPACITOR >			
C751	1-164-159-21	CERAMIC	0.1uF		50V
C752	1-164-159-21	CERAMIC	0.1uF		50V
C753	1-164-159-21	CERAMIC	0.1uF		50V
C754	1-164-159-21	CERAMIC	0.1uF		50V
		< JACK >			
J701	1-569-113-11	JACK, LARGE TYPE (PHONES)			

****

*	1-650-669-11	LEAF SWITCH BOARD			
		**********			
		< CONNECTOR >			
CN1001	1-695-372-31	PIN, CONNECTOR (PC BOARD) 11P			
		< TRANSISTOR >			
Q1001	8-749-010-90	TRANSISTOR PHOTO REFLECTOR NJL5165KA-H			
Q1002	8-749-010-90	TRANSISTOR PHOTO REFLECTOR NJL5165KA-H			
		< RESISTOR >			
R1001	1-247-818-11	CARBON	300	5%	1/4W
R1002	1-247-820-11	CARBON	360	5%	1/4W
R1003	1-249-414-11	CARBON	560	5%	1/4W F
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-11	CARBON	300	5%	1/4W
		< SWITCH >			
S1001	1-692-832-11	SWITCH, PUSH (1 KEY) (A PLAY)			
S1002	1-692-832-11	SWITCH, PUSH (1 KEY) (B PLAY)			
S1004	1-571-281-21	SWITCH, LEAF (A HALF)			
S1005	1-571-281-21	SWITCH, LEAF (A CrO2)			
S1006	1-572-248-11	SWITCH, LEAF (REC A)			
S1007	1-572-248-11	SWITCH, LEAF (B HALF)			
S1008	1-571-281-21	SWITCH, LEAF (B CrO2)			
S1009	1-571-281-21	SWITCH, LEAF (REC B)			

****

*	A-4398-354-A	MAIN BOARD, COMPLETE (E,SP,AUS)			
		**********			
*	A-4398-357-A	MAIN BOARD, COMPLETE (AEP,UK)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C101	1-162-286-21	CERAMIC	220PF	10%	50V
C102	1-162-286-21	CERAMIC	220PF	10%	50V
C103	1-162-286-21	CERAMIC	220PF	10%	50V
C104	1-162-286-21	CERAMIC	220PF	10%	50V
C105	1-162-286-21	CERAMIC	220PF	10%	50V
C106	1-162-286-21	CERAMIC	220PF	10%	50V
C107	1-126-963-11	ELECT	4.7uF	20%	50V
C108	1-162-282-31	CERAMIC	100PF	10%	50V
C109	1-126-964-11	ELECT	10uF	20%	50V
C110	1-130-480-00	MYLAR	0.0056uF	5%	50V

Ref. No.	Part No.	Description			Remarks
C111	1-130-473-00	MYLAR	0.0015uF	5%	50V
C112	1-126-960-11	ELECT	1uF	20%	50V
C113	1-126-962-11	ELECT	3.3uF	20%	50V
C114	1-126-964-11	ELECT	10uF	20%	50V
C115	1-136-165-00	FILM	0.1uF	5%	50V
C116	1-136-165-00	FILM	0.1uF	5%	50V
C117	1-136-165-00	FILM	0.1uF	5%	50V
C118	1-137-367-11	FILM	0.0033uF	5%	50V
C119	1-126-964-11	ELECT	10uF	20%	50V
C121	1-136-165-00	FILM	0.1uF	5%	50V
C122	1-126-960-11	ELECT	1uF	20%	50V
C123	1-126-964-11	ELECT	10uF	20%	50V
C124	1-126-961-11	ELECT	2.2uF	20%	50V
C125	1-126-964-11	ELECT	10uF	20%	50V
C201	1-162-286-21	CERAMIC	220PF	10%	50V
C202	1-162-286-21	CERAMIC	220PF	10%	50V
C203	1-162-286-21	CERAMIC	220PF	10%	50V
C204	1-162-286-21	CERAMIC	220PF	10%	50V
C205	1-162-286-21	CERAMIC	220PF	10%	50V
C206	1-162-286-21	CERAMIC	220PF	10%	50V
C207	1-126-963-11	ELECT	4.7uF	20%	50V
C208	1-162-282-31	CERAMIC	100PF	10%	50V
C209	1-126-964-11	ELECT	10uF	20%	50V
C210	1-130-480-00	MYLAR	0.0056uF	5%	50V
C211	1-130-473-00	MYLAR	0.0015uF	5%	50V
C212	1-126-960-11	ELECT	1uF	20%	50V
C213	1-126-962-11	ELECT	3.3uF	20%	50V
C214	1-126-964-11	ELECT	10uF	20%	50V
C215	1-136-165-00	FILM	0.1uF	5%	50V
C216	1-136-165-00	FILM	0.1uF	5%	50V
C217	1-136-165-00	FILM	0.1uF	5%	50V
C218	1-137-367-11	FILM	0.0033uF	5%	50V
C219	1-126-964-11	ELECT	10uF	20%	50V
C221	1-136-165-00	FILM	0.1uF	5%	50V
C222	1-126-960-11	ELECT	1uF	20%	50V
C223	1-126-964-11	ELECT	10uF	20%	50V
C224	1-126-961-11	ELECT	2.2uF	20%	50V
C225	1-126-964-11	ELECT	10uF	20%	50V
C301	1-126-964-11	ELECT	10uF	20%	50V
C302	1-126-963-11	ELECT	4.7uF	20%	50V
C303	1-126-964-11	ELECT	10uF	20%	50V
C304	1-126-964-11	ELECT	10uF	20%	50V
C310	1-136-157-00	FILM	0.022uF	5%	50V
C311	1-136-161-00	FILM	0.047uF	5%	50V
C312	1-126-923-11	ELECT	220uF	20%	10V
C313	1-126-964-11	ELECT	10uF	20%	50V
C314	1-126-964-11	ELECT	10uF	20%	50V
C315	1-126-964-11	ELECT	10uF	20%	50V
C316	1-126-964-11	ELECT	10uF	20%	50V
C317	1-126-923-11	ELECT	220uF	20%	10V
C320	1-126-959-11	ELECT	0.47uF	20%	50V
C321	1-126-963-11	ELECT	4.7uF	20%	50V
C322	1-126-959-11	ELECT	0.47uF	20%	50V
C323	1-126-963-11	ELECT	4.7uF	20%	50V
C324	1-136-167-00	FILM	0.15uF	5%	50V
C325	1-126-962-11	ELECT	3.3uF	20%	50V
C326	1-136-167-00	FILM	0.15uF	5%	50V
C327	1-136-167-00	FILM	0.15uF	5%	50V
C328	1-126-962-11	ELECT	3.3uF	20%	50V
C329	1-136-167-00	FILM	0.15uF	5%	50V

Ref. No.	Part No.	Description			Remarks
C330	1-126-963-11	ELECT	4.7uF	20%	50V
C331	1-126-959-11	ELECT	0.47uF	20%	50V
C332	1-126-963-11	ELECT	4.7uF	20%	50V
C333	1-126-959-11	ELECT	0.47uF	20%	50V
C336	1-104-664-11	ELECT	47uF	20%	25V
C337	1-126-959-11	ELECT	0.47uF	20%	50V
C338	1-126-964-11	ELECT	10uF	20%	50V
C339	1-162-292-31	CERAMIC	680PF	10%	50V
C340	1-164-159-21	CERAMIC	0.1uF		50V
C341	1-164-159-21	CERAMIC	0.1uF		50V
C342	1-126-961-11	ELECT	2.2uF	20%	50V
C343	1-126-923-11	ELECT	220uF	20%	10V
C344	1-124-252-00	ELECT	0.33uF	20%	50V
C345	1-162-306-11	CERAMIC	0.01uF	20%	16V
C346	1-126-959-11	ELECT	0.47uF	20%	50V
C347	1-137-438-11	FILM	0.0082uF	5%	50V
C348	1-137-367-11	FILM	0.0033uF	5%	50V
C349	1-137-438-11	FILM	0.0082uF	5%	50V
C350	1-126-923-11	ELECT	220uF	20%	10V
C351	1-128-551-11	ELECT	22uF	20%	25V
C352	1-128-551-11	ELECT	22uF	20%	25V
C353	1-126-964-11	ELECT	10uF	20%	50V
C354	1-126-933-11	ELECT	100uF	20%	16V
C355	1-126-933-11	ELECT	100uF	20%	16V
C356	1-136-153-00	FILM	0.01uF	5%	50V
C357	1-164-159-21	CERAMIC	0.1uF		50V
C358	1-164-159-21	CERAMIC	0.1uF		50V
C359	1-162-286-21	CERAMIC	220PF	10%	50V
C360	1-164-159-21	CERAMIC	0.1uF		50V
C361	1-126-933-11	ELECT	100uF	20%	10V
C401	1-126-964-11	ELECT	10uF	20%	50V
C402	1-126-960-11	ELECT	1uF	20%	50V
C451	1-136-165-00	FILM	0.1uF	5%	50V
C452	1-136-165-00	FILM	0.1uF	5%	50V
C453	1-126-767-11	ELECT	1000uF	20%	16V
C501	1-126-933-11	ELECT	100uF	20%	10V
C502	1-126-933-11	ELECT	100uF	20%	10V
C511	1-137-368-11	FILM	0.0047uF	5%	50V
C512	1-162-306-11	CERAMIC	0.01uF	20%	16V
C513	1-136-165-00	FILM	0.1uF	5%	50V
C514	1-126-963-11	ELECT	4.7uF	20%	50V
C515	1-126-960-11	ELECT	1uF	20%	50V
C516	1-126-964-11	ELECT	10uF	20%	50V
C517	1-126-959-11	ELECT	0.47uF	20%	50V
C518	1-162-290-31	CERAMIC	470PF	10%	50V
C521	1-137-368-11	FILM	0.0047uF	5%	50V
C522	1-162-306-11	CERAMIC	0.01uF	20%	16V
C523	1-136-165-00	FILM	0.1uF	5%	50V
C524	1-126-960-11	ELECT	1uF	20%	50V
C525	1-126-960-11	ELECT	1uF	20%	50V
C526	1-126-964-11	ELECT	10uF	20%	50V
C527	1-126-959-11	ELECT	0.47uF	20%	50V
C528	1-162-290-31	CERAMIC	470PF	10%	50V
C541	1-164-159-21	CERAMIC	0.1uF		50V
C542	1-164-159-21	CERAMIC	0.1uF		50V
C543	1-164-159-21	CERAMIC	0.1uF		50V
C544	1-164-159-21	CERAMIC	0.1uF		50V
C545	1-126-964-11	ELECT	10uF	20%	50V
C546	1-126-964-11	ELECT	10uF	20%	50V
C547	1-162-306-11	CERAMIC	0.01uF	20%	16V

MAIN

Ref. No.	Part No.	Description			Remarks
C548	1-162-306-11	CERAMIC	0.01uF	20%	16V
C601	1-126-964-11	ELECT	10uF	20%	50V
C603	1-126-964-11	ELECT	10uF	20%	50V
C604	1-126-964-11	ELECT	10uF	20%	50V
C605	1-136-153-00	FILM	0.01uF	5%	50V
C606	1-126-964-11	ELECT	10uF	20%	50V
C607	1-126-959-11	ELECT	0.47uF	20%	50V
C608	1-137-193-11	FILM	0.39uF	5%	50V
C609	1-126-963-11	ELECT	4.7uF	20%	50V
C610	1-126-959-11	ELECT	0.47uF	20%	50V
C611	1-136-166-00	FILM	0.12uF	5%	50V
C612	1-126-964-11	ELECT	10uF	20%	50V
C613	1-126-964-11	ELECT	10uF	20%	50V
C614	1-126-933-11	ELECT	100uF	20%	10V
C899	1-162-286-21	CERAMIC	220PF	10%	50V
C952	1-126-934-11	ELECT	220uF	20%	16V
C953	1-126-947-11	ELECT	47uF	20%	35V
C954	1-126-953-11	ELECT	2200uF	20%	35V
C958	1-126-967-11	ELECT	47uF	20%	16V
C959	1-126-967-11	ELECT	47uF	20%	10V
C965	1-101-005-00	CERAMIC	22000PF		50V
C966	1-101-005-00	CERAMIC	22000PF		50V
C967	1-126-953-11	ELECT	2200uF	20%	35V
C968	1-126-953-11	ELECT	2200uF	20%	35V
C969	1-126-964-11	ELECT	10uF	20%	50V
C970	1-126-967-11	ELECT	47uF	20%	16V
C977	1-104-664-11	ELECT	47uF	20%	25V
C978	1-104-664-11	ELECT	47uF	20%	25V
C979	1-126-964-11	ELECT	10uF	20%	50V
C980	1-126-964-11	ELECT	10uF	20%	50V
C981	1-126-925-11	ELECT	470uF	20%	10V
C982	1-126-925-11	ELECT	470uF	20%	10V
C985	1-126-961-11	ELECT	2.2uF	20%	50V
C986	1-126-961-11	ELECT	2.2uF	20%	50V
C987	1-126-961-11	ELECT	2.2uF	20%	50V
C988	1-126-961-11	ELECT	2.2uF	20%	50V
C989	1-126-940-11	ELECT	330uF	20%	25V
C990	1-126-940-11	ELECT	330uF	20%	25V
C995	1-126-960-11	ELECT	1uF	20%	50V
		< CONNECTOR >			
CN313	1-695-336-31	PIN, CONNECTOR (PC BOARD) 13P (E,SP,AUS)			
CN313	1-695-338-11	PIN, CONNECTOR (PC BOARD) 15P (AEP,UK)			
CN315	1-568-845-11	PIN, CONNECTOR (PC BOARD) 31P			
CN317	1-695-344-11	PIN, CONNECTOR (PC BOARD) 21P			
CN319	1-695-334-11	PIN, CONNECTOR (PC BOARD) 11P			
CN321	1-695-342-31	PIN, CONNECTOR (PC BOARD) 19P			
CN361	1-770-731-11	CONNECTOR, BOARD TO BOARD 12P			
CN363	1-770-731-11	CONNECTOR, BOARD TO BOARD 12P			
		< DIODE >			
D301	8-719-987-63	DIODE 1N4148M			
D951	8-719-001-71	DIODE UZL-12M1-TA			
D952	8-719-200-82	DIODE 11ES2			
D953	8-719-200-82	DIODE 11ES2			
D956	8-719-011-92	DIODE UZ-10BSB-TA			
D957	8-719-200-82	DIODE 11ES2			
D958	8-719-200-82	DIODE 11ES2			
D959	8-719-200-82	DIODE 11ES2			
D960	8-719-200-82	DIODE 11ES2			
D963	8-719-001-33	DIODE UZL-11L1			

Ref. No.	Part No.	Description	Remarks
D964	8-719-987-63	DIODE 1N4148M	
D965	8-719-987-63	DIODE 1N4148M	
		< TERMINAL >	
* G501	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC301	8-759-634-51	IC M5218AP	
IC302	8-759-805-14	IC LC7822	
IC303	8-759-442-96	IC LA2786	
IC304	8-759-442-97	IC LV1016	
IC305	8-759-264-31	IC TDA7315	
IC306	8-759-264-31	IC TDA7315	
IC307	8-759-634-51	IC M5218AP	
IC308	8-759-634-51	IC M5218AP	
IC309	8-759-634-51	IC M5218AP	
IC310	8-759-248-76	IC LC7824	
IC311	8-759-634-51	IC M5218AP	
IC312	8-759-634-51	IC M5218AP	
IC332	8-759-822-09	IC LB1641	
IC501	8-759-363-21	IC HA12203NT	
IC951	8-759-604-86	IC M5F7807L	
IC952	8-759-604-90	IC M5F7907L	
		< JACK >	
J301	1-774-411-11	JACK, PIN 6P (PHONO/CD/AUDIO OUT)	
J302	1-695-188-31	JACK, PIN 4P (AUDIO IN)	
		< COIL >	
L311	1-410-521-11	INDUCTOR 100uH	
L312	1-410-521-11	INDUCTOR 100uH	
L951	1-410-521-11	INDUCTOR 100uH	
L952	1-410-521-11	INDUCTOR 100uH	
		< TRANSISTOR >	
Q101	8-729-900-36	TRANSISTOR DTC124ES	
Q102	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q201	8-729-900-36	TRANSISTOR DTC124ES	
Q202	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q401	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q410	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q420	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q451	8-729-900-89	TRANSISTOR DTC144ES	
Q452	8-729-801-93	TRANSISTOR 2SD1387	
Q453	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q454	8-729-900-89	TRANSISTOR DTC144ES	
Q601	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q602	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q603	8-729-119-78	TRANSISTOR 2SC2785	
Q898	8-729-900-65	TRANSISTOR DTA144ES	
Q899	8-729-900-63	TRANSISTOR DTA124ES	
Q951	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q952	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q955	8-729-021-82	TRANSISTOR 2SD2396K	
Q956	8-729-209-15	TRANSISTOR 2SD2012	
Q957	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q971	8-729-900-63	TRANSISTOR DTA124ES	

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R1	1-247-807-31	CARBON	100	5%	1/4W
R2	1-247-807-31	CARBON	100	5%	1/4W
R101	1-249-417-11	CARBON	1K	5%	1/4W F
R102	1-249-417-11	CARBON	1K	5%	1/4W F
R103	1-249-425-11	CARBON	4.7K	5%	1/4W F
R104	1-249-427-11	CARBON	6.8K	5%	1/4W F
R105	1-249-417-11	CARBON	1K	5%	1/4W F
R106	1-249-417-11	CARBON	1K	5%	1/4W F
R107	1-249-417-11	CARBON	1K	5%	1/4W F
R108	1-249-437-11	CARBON	47K	5%	1/4W
R109	1-249-415-11	CARBON	680	5%	1/4W F
R110	1-247-897-11	CARBON	560K	5%	1/4W
R111	1-249-437-11	CARBON	47K	5%	1/4W
R112	1-249-441-11	CARBON	100K	5%	1/4W
R113	1-247-815-91	CARBON	220	5%	1/4W
R114	1-249-441-11	CARBON	100K	5%	1/4W
R115	1-249-426-11	CARBON	5.6K	5%	1/4W
R116	1-249-441-11	CARBON	100K	5%	1/4W
R117	1-249-432-11	CARBON	18K	5%	1/4W
R118	1-249-440-11	CARBON	82K	5%	1/4W
R119	1-249-438-11	CARBON	56K	5%	1/4W
R120	1-247-899-11	CARBON	680K	5%	1/4W
R121	1-249-416-11	CARBON	820	5%	1/4W F
R122	1-249-417-11	CARBON	1K	5%	1/4W F
R123	1-249-441-11	CARBON	100K	5%	1/4W
R124	1-247-807-31	CARBON	100	5%	1/4W
R125	1-247-863-91	CARBON	22K	5%	1/4W
R126	1-247-840-00	CARBON	2.4K	5%	1/4W
R127	1-249-417-11	CARBON	1K	5%	1/4W F
R128	1-249-428-11	CARBON	8.2K	5%	1/4W F
R129	1-249-421-11	CARBON	2.2K	5%	1/4W F
R201	1-249-417-11	CARBON	1K	5%	1/4W F
R202	1-249-417-11	CARBON	1K	5%	1/4W F
R203	1-249-425-11	CARBON	4.7K	5%	1/4W F
R204	1-249-427-11	CARBON	6.8K	5%	1/4W F
R205	1-249-417-11	CARBON	1K	5%	1/4W F
R206	1-249-417-11	CARBON	1K	5%	1/4W F
R207	1-249-417-11	CARBON	1K	5%	1/4W F
R208	1-249-437-11	CARBON	47K	5%	1/4W
R209	1-249-415-11	CARBON	680	5%	1/4W F
R210	1-247-897-11	CARBON	560K	5%	1/4W
R211	1-249-437-11	CARBON	47K	5%	1/4W
R212	1-249-441-11	CARBON	100K	5%	1/4W
R213	1-247-815-91	CARBON	220	5%	1/4W
R214	1-249-441-11	CARBON	100K	5%	1/4W
R215	1-249-426-11	CARBON	5.6K	5%	1/4W
R216	1-249-441-11	CARBON	100K	5%	1/4W
R217	1-249-432-11	CARBON	18K	5%	1/4W
R218	1-249-440-11	CARBON	82K	5%	1/4W
R219	1-249-438-11	CARBON	56K	5%	1/4W
R220	1-247-899-11	CARBON	680K	5%	1/4W
R221	1-249-416-11	CARBON	820	5%	1/4W F
R222	1-249-417-11	CARBON	1K	5%	1/4W F
R223	1-249-441-11	CARBON	100K	5%	1/4W
R224	1-247-807-31	CARBON	100	5%	1/4W
R225	1-247-863-91	CARBON	22K	5%	1/4W
R226	1-247-840-00	CARBON	2.4K	5%	1/4W
R227	1-249-417-11	CARBON	1K	5%	1/4W F
R228	1-249-428-11	CARBON	8.2K	5%	1/4W F
R229	1-249-421-11	CARBON	2.2K	5%	1/4W F
R301	1-249-441-11	CARBON	100K	5%	1/4W
R302	1-249-417-11	CARBON	1K	5%	1/4W F
R303	1-249-435-11	CARBON	33K	5%	1/4W
R304	1-249-411-11	CARBON	330	5%	1/4W
R305	1-249-417-11	CARBON	1K	5%	1/4W F
R306	1-249-441-11	CARBON	100K	5%	1/4W
R307	1-247-807-31	CARBON	100	5%	1/4W
R310	1-247-815-91	CARBON	220	5%	1/4W
R311	1-247-815-91	CARBON	220	5%	1/4W
R312	1-249-425-11	CARBON	4.7K	5%	1/4W F
R313	1-249-426-11	CARBON	5.6K	5%	1/4W
R314	1-249-426-11	CARBON	5.6K	5%	1/4W
R315	1-249-426-11	CARBON	5.6K	5%	1/4W
R340	1-249-436-11	CARBON	39K	5%	1/4W
R341	1-249-411-11	CARBON	330	5%	1/4W
R342	1-247-903-00	CARBON	1M	5%	1/4W
R401	1-247-862-11	CARBON	20K	5%	1/4W
R402	1-249-417-11	CARBON	1K	5%	1/4W F
R403	1-249-425-11	CARBON	4.7K	5%	1/4W F
R404	1-247-807-31	CARBON	100	5%	1/4W
⚠R451	1-249-393-11	FUSIBLE	10	5%	1/4W F
R452	1-249-441-11	CARBON	100K	5%	1/4W
R453	1-249-418-11	CARBON	1.2K	5%	1/4W F
R454	1-249-429-11	CARBON	10K	5%	1/4W
R455	1-249-411-11	CARBON	330	5%	1/4W
R456	1-249-427-11	CARBON	6.8K	5%	1/4W F
R457	1-249-425-11	CARBON	4.7K	5%	1/4W F
R458	1-249-426-11	CARBON	5.6K	5%	1/4W
R459	1-249-421-11	CARBON	2.2K	5%	1/4W F
R460	1-249-421-11	CARBON	2.2K	5%	1/4W F
R511	1-247-863-91	CARBON	22K	5%	1/4W
R512	1-249-428-11	CARBON	8.2K	5%	1/4W F
R513	1-249-425-11	CARBON	4.7K	5%	1/4W F
R514	1-249-425-11	CARBON	4.7K	5%	1/4W F
R521	1-249-435-11	CARBON	33K	5%	1/4W
R522	1-249-428-11	CARBON	8.2K	5%	1/4W F
R523	1-249-425-11	CARBON	4.7K	5%	1/4W F
R524	1-249-425-11	CARBON	4.7K	5%	1/4W F
R541	1-249-430-11	CARBON	12K	5%	1/4W
R542	1-249-426-11	CARBON	5.6K	5%	1/4W
R543	1-249-429-11	CARBON	10K	5%	1/4W
R546	1-249-429-11	CARBON	10K	5%	1/4W
R547	1-249-429-11	CARBON	10K	5%	1/4W
R548	1-249-441-11	CARBON	100K	5%	1/4W
R549	1-249-437-11	CARBON	47K	5%	1/4W
R550	1-249-436-11	CARBON	39K	5%	1/4W
R551	1-249-436-11	CARBON	39K	5%	1/4W
R552	1-249-437-11	CARBON	47K	5%	1/4W
R553	1-249-425-11	CARBON	4.7K	5%	1/4W F
R554	1-249-417-11	CARBON	1K	5%	1/4W F
R555	1-249-421-11	CARBON	2.2K	5%	1/4W F
R556	1-249-425-11	CARBON	4.7K	5%	1/4W F
R601	1-249-435-11	CARBON	33K	5%	1/4W
R602	1-249-422-11	CARBON	2.7K	5%	1/4W F
R603	1-249-435-11	CARBON	33K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN POWER

Ref. No.	Part No.	Description			Remarks
R604	1-249-422-11	CARBON	2.7K	5%	1/4W F
R605	1-249-411-11	CARBON	330	5%	1/4W
R606	1-249-411-11	CARBON	330	5%	1/4W
R607	1-249-417-11	CARBON	1K	5%	1/4W F
R608	1-247-815-91	CARBON	220	5%	1/4W
R609	1-249-420-11	CARBON	1.8K	5%	1/4W F
R610	1-247-843-11	CARBON	3.3K	5%	1/4W
R611	1-249-424-11	CARBON	3.9K	5%	1/4W F
R612	1-249-425-11	CARBON	4.7K	5%	1/4W F
R613	1-249-424-11	CARBON	3.9K	5%	1/4W F
R614	1-249-425-11	CARBON	4.7K	5%	1/4W
R615	1-249-424-11	CARBON	3.9K	5%	1/4W F
R616	1-249-420-11	CARBON	1.8K	5%	1/4W F
R617	1-249-414-11	CARBON	560	5%	1/4W
R618	1-249-417-11	CARBON	1K	5%	1/4W F
R619	1-247-887-00	CARBON	220K	5%	1/4W
R620	1-249-418-11	CARBON	1.2K	5%	1/4W F
R621	1-249-441-11	CARBON	100K	5%	1/4W
R622	1-249-435-11	CARBON	33K	5%	1/4W
R623	1-249-427-11	CARBON	6.8K	5%	1/4W F
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-441-11	CARBON	100K	5%	1/4W
R626	1-249-429-11	CARBON	10K	5%	1/4W
R627	1-249-417-11	CARBON	1K	5%	1/4W F
R628	1-247-807-31	CARBON	100	5%	1/4W
R629	1-249-429-11	CARBON	10K	5%	1/4W
R630	1-249-429-11	CARBON	10K	5%	1/4W
R631	1-249-429-11	CARBON	10K	5%	1/4W
R632	1-249-429-11	CARBON	10K	5%	1/4W
R633	1-249-429-11	CARBON	10K	5%	1/4W
R891	1-249-417-11	CARBON	1K	5%	1/4W F
R892	1-249-417-11	CARBON	1K	5%	1/4W F
R893	1-249-417-11	CARBON	1K	5%	1/4W F
R894	1-249-417-11	CARBON	1K	5%	1/4W F
R895	1-249-417-11	CARBON	1K	5%	1/4W F
R896	1-249-417-11	CARBON	1K	5%	1/4W F
R897	1-247-863-91	CARBON	22K	5%	1/4W
R898	1-249-437-11	CARBON	47K	5%	1/4W
R899	1-247-863-91	CARBON	22K	5%	1/4W
R951	1-249-421-11	CARBON	2.2K	5%	1/4W F
R952	1-249-421-11	CARBON	2.2K	5%	1/4W F
R959	1-249-425-11	CARBON	4.7K	5%	1/4W F
R961	1-249-421-11	CARBON	2.2K	5%	1/4W F
R962	1-249-421-11	CARBON	2.2K	5%	1/4W F
R991	1-249-429-11	CARBON	10K	5%	1/4W
R992	1-249-429-11	CARBON	10K	5%	1/4W
R993	1-249-429-11	CARBON	10K	5%	1/4W
R994	1-249-429-11	CARBON	10K	5%	1/4W
R995	1-249-437-11	CARBON	47K	5%	1/4W
R996	1-249-417-11	CARBON	1K	5%	1/4W F
R997	1-249-421-11	CARBON	2.2K	5%	1/4W F
R998	1-249-421-11	CARBON	2.2K	5%	1/4W F
R999	1-249-437-11	CARBON	47K	5%	1/4W
		< VARIABLE RESISTOR >			
RV511	1-241-630-11	RES, ADJ, CARBON 10K			
RV521	1-241-630-11	RES, ADJ, CARBON 10K			

Ref. No.	Part No.	Description			Remarks
		< TEST PIN >			
TP511	1-691-574-31	PIN, CONNECTOR (PC BOARD) 3P			
TP521	1-691-574-31	PIN, CONNECTOR (PC BOARD) 3P			
		< VIBRATOR >			
X301	1-579-952-21	VIBRATOR, CERAMIC 8MHz			
**********					
*	A-4398-323-A	POWER BOARD, COMPLETE (AEP,UK,AUS)			
		**********			
*	A-4398-351-A	POWER BOARD, COMPLETE (E,SP)			
		**********			
	3-905-609-01	SCREW (TRANSISTOR)			
	4-812-134-00	RIVET (DIA. 3.5), NYLON			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C171	1-126-959-11	ELECT	0.47uF	20%	50V
C172	1-162-282-31	CERAMIC	100PF	10%	50V
C173	1-126-933-11	ELECT	100uF	20%	10V
C174	1-102-233-00	CERAMIC	33PF	10%	500V
C175	1-126-967-11	ELECT	47uF	20%	16V
C176	1-162-286-21	CERAMIC	220PF	10%	50V
C177	1-136-157-00	FILM	0.022uF	5%	50V
C181	1-136-165-00	FILM	0.1uF	5%	50V
C271	1-126-959-11	ELECT	0.47uF	20%	50V
C272	1-162-282-31	CERAMIC	100PF	10%	50V
C273	1-126-933-11	ELECT	100uF	20%	10V
C274	1-102-233-00	CERAMIC	33PF	10%	500V
C275	1-126-967-11	ELECT	47uF	20%	16V
C276	1-162-286-21	CERAMIC	220PF	10%	50V
C277	1-136-157-00	FILM	0.022uF	5%	50V
C281	1-136-165-00	FILM	0.1uF	5%	50V
C371	1-126-959-11	ELECT	0.47uF	20%	50V
C372	1-162-282-31	CERAMIC	100PF	10%	50V
C373	1-126-933-11	ELECT	100uF	20%	10V
C374	1-102-233-00	CERAMIC	33PF	10%	500V
C375	1-126-967-11	ELECT	47uF	20%	16V
C376	1-162-286-21	CERAMIC	220PF	10%	50V
C377	1-136-157-00	FILM	0.022uF	5%	50V
C471	1-126-959-11	ELECT	0.47uF	20%	50V
C472	1-162-282-31	CERAMIC	100PF	10%	50V
C473	1-126-933-11	ELECT	100uF	20%	10V
C474	1-102-233-00	CERAMIC	33PF	10%	500V
C475	1-126-967-11	ELECT	47uF	20%	16V
C476	1-162-286-21	CERAMIC	220PF	10%	50V
C477	1-136-157-00	FILM	0.022uF	5%	50V
C921	1-126-923-11	ELECT	220uF	20%	10V
C922	1-128-576-11	ELECT	100uF	20%	63V
C923	1-128-576-11	ELECT	100uF	20%	63V
C931	1-126-923-11	ELECT	220uF	20%	10V
C932	1-126-965-11	ELECT	22uF	20%	50V
C955	1-128-576-11	ELECT	100uF	20%	63V
C956	1-126-964-11	ELECT	10uF	20%	50V (AEP,UK,AUS)
C957	1-126-964-11	ELECT	10uF	20%	50V (AEP,UK,AUS)
C960	1-136-165-00	FILM	0.1uF	5%	50V (E,SP)
C961	1-130-781-00	FILM	0.22uF	10%	100V

Ref. No.	Part No.	Description			Remarks
C962	1-130-781-00	FILM	0.22uF	10%	100V
C963	1-136-169-00	FILM	0.22uF	5%	50V
C964	1-136-169-00	FILM	0.22uF	5%	50V
C971	1-117-782-11	ELECT	6800uF	20%	63V
C972	1-117-782-11	ELECT	6800uF	20%	63V
C974	1-126-953-11	ELECT	2200uF	20%	35V
C975	1-126-953-11	ELECT	2200uF	20%	35V
C976	1-136-165-00	FILM	0.1uF	5%	50V (E,SP)
		< CONNECTOR >			
CN432	1-691-577-11	PIN, CONNECTOR (PC BOARD) 6P			
CN434	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CN448	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
CN450	1-691-766-11	PLUG (MICRO CONNECTOR) 4P (AEP,UK,AUS)			
CN450	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P (E,SP)			
* CN462	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P			
* CN464	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P			
* CN546	1-691-774-11	PLUG (MICRO CONNECTOR) 12P			
		< DIODE >			
D651	8-719-987-63	DIODE 1N4148M			
D931	8-719-987-63	DIODE 1N4148M			
D932	8-719-987-63	DIODE 1N4148M			
D933	8-719-815-85	DIODE 1S1585			
D934	8-719-815-85	DIODE 1S1585			
D935	8-719-987-63	DIODE 1N4148M			
D936	8-719-987-63	DIODE 1N4148M			
D937	8-719-987-63	DIODE 1N4148M			
D938	8-719-987-63	DIODE 1N4148M			
D939	8-719-987-63	DIODE 1N4148M			
D940	8-719-987-63	DIODE 1N4148M			
D941	8-719-987-63	DIODE 1N4148M			
D954	8-719-987-63	DIODE 1N4148M			
D955	8-719-002-43	DIODE UZL-27L-TA			
D961	8-719-510-68	DIODE D5SBA20F01			
D962	8-719-500-56	DIODE D3SBA20			
D971	8-719-200-82	DIODE 11ES2			
D972	8-719-200-82	DIODE 11ES2			
		< TERMINAL >			
* EB902	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC351	8-759-326-52	IC uPC2581V			
IC352	8-759-326-52	IC uPC2581V			
		< COIL >			
L171	1-420-872-00	COIL, AIR-CORE			
L271	1-420-872-00	COIL, AIR-CORE			
L371	1-420-872-00	COIL, AIR-CORE			
L471	1-420-872-00	COIL, AIR-CORE			
		< TRANSISTOR >			
Q171	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q172	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q173	8-749-010-25	IC MN2488-OPY-M			
Q174	8-749-010-26	IC MP1620-OPY-M			
Q175	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			

Ref. No.	Part No.	Description			Remarks
Q271	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q272	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q273	8-749-010-25	IC MN2488-OPY-M			
Q274	8-749-010-26	IC MP1620-OPY-M			
Q275	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q371	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q372	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q373	8-749-010-25	IC MN2488-OPY-M			
Q374	8-749-010-26	IC MP1620-OPY-M			
Q375	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q471	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q472	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q473	8-749-010-25	IC MN2488-OPY-M			
Q474	8-749-010-26	IC MP1620-OPY-M			
Q475	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q921	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q922	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q931	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q932	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q933	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q934	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q935	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q936	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q937	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q953	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q954	8-729-141-83	TRANSISTOR 2SB1094-LK			
		< RESISTOR >			
R171	1-249-417-11	CARBON	1K	5%	1/4W F
R172	1-249-439-11	CARBON	68K	5%	1/4W
R173	1-249-414-11	CARBON	560	5%	1/4W F
R174	1-249-439-11	CARBON	68K	5%	1/4W
R175	1-249-421-11	CARBON	2.2K	5%	1/4W F
R176	1-249-437-11	CARBON	47K	5%	1/4W
R177	1-249-414-11	CARBON	560	5%	1/4W F
⚠R178	1-249-409-11	CARBON	220	5%	1/4W F
⚠R179	1-249-409-11	CARBON	220	5%	1/4W F
⚠R180	1-233-352-41	ENCAPSULATED COMPONENT			
R181	1-249-427-11	CARBON	6.8K	5%	1/4W F
R182	1-249-419-11	CARBON	1.5K	5%	1/4W F
⚠R183	1-249-393-11	CARBON	10	5%	1/4W F
R184	1-249-437-11	CARBON	47K	5%	1/4W
R185	1-249-389-11	CARBON	4.7	5%	1/4W F
R186	1-247-754-81	CARBON	1.5K	5%	1/2W F
R187	1-247-754-81	CARBON	1.5K	5%	1/2W F
R271	1-249-417-11	CARBON	1K	5%	1/4W F
R272	1-249-439-11	CARBON	68K	5%	1/4W
R273	1-249-414-11	CARBON	560	5%	1/4W F
R274	1-249-439-11	CARBON	68K	5%	1/4W
R275	1-249-421-11	CARBON	2.2K	5%	1/4W F
R276	1-249-437-11	CARBON	47K	5%	1/4W
R277	1-249-414-11	CARBON	560	5%	1/4W F
⚠R278	1-249-409-11	CARBON	220	5%	1/4W F
⚠R279	1-249-409-11	CARBON	220	5%	1/4W F
⚠R280	1-233-352-41	ENCAPSULATED COMPONENT			
R281	1-249-427-11	CARBON	6.8K	5%	1/4W F
R282	1-249-419-11	CARBON	1.5K	5%	1/4W F
⚠R283	1-249-393-11	CARBON	10	5%	1/4W F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

POWER **PRIMARY** **SECONDARY** **TEN KEY**

Ref. No.	Part No.	Description			Remarks
R284	1-249-438-11	CARBON	56K	5% 1/4W	
R285	1-249-389-11	CARBON	4.7	5% 1/4W	F
R286	1-247-754-81	CARBON	1.5K	5% 1/2W	F
R287	1-247-754-81	CARBON	1.5K	5% 1/2W	F
R371	1-249-417-11	CARBON	1K	5% 1/4W	F
R372	1-249-439-11	CARBON	68K	5% 1/4W	
R373	1-249-411-11	CARBON	330	5% 1/4W	
R374	1-249-439-11	CARBON	68K	5% 1/4W	
R375	1-249-421-11	CARBON	2.2K	5% 1/4W	F
R376	1-249-437-11	CARBON	47K	5% 1/4W	
R377	1-249-414-11	CARBON	560	5% 1/4W	F
⚠R378	1-249-409-11	CARBON	220	5% 1/4W	F
⚠R379	1-249-409-11	CARBON	220	5% 1/4W	F
⚠R380	1-233-352-41	ENCAPSULATED COMPONENT			
R381	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R382	1-249-419-11	CARBON	1.5K	5% 1/4W	F
⚠R383	1-249-393-11	CARBON	10	5% 1/4W	F
R384	1-249-438-11	CARBON	56K	5% 1/4W	
R385	1-249-389-11	CARBON	4.7	5% 1/4W	F
R471	1-249-417-11	CARBON	1K	5% 1/4W	F
R472	1-249-439-11	CARBON	68K	5% 1/4W	
R473	1-249-411-11	CARBON	330	5% 1/4W	
R474	1-249-439-11	CARBON	68K	5% 1/4W	
R475	1-249-421-11	CARBON	2.2K	5% 1/4W	F
R476	1-249-437-11	CARBON	47K	5% 1/4W	
R477	1-249-414-11	CARBON	560	5% 1/4W	F
⚠R478	1-249-409-11	CARBON	220	5% 1/4W	F
⚠R479	1-249-409-11	CARBON	220	5% 1/4W	F
⚠R480	1-233-352-41	ENCAPSULATED COMPONENT			
R481	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R482	1-249-419-11	CARBON	1.5K	5% 1/4W	F
⚠R483	1-249-393-11	CARBON	10	5% 1/4W	F
R484	1-249-437-11	CARBON	47K	5% 1/4W	
R485	1-249-389-11	CARBON	4.7	5% 1/4W	F
R657	1-249-437-11	CARBON	47K	5% 1/4W	
R661	1-249-437-11	CARBON	47K	5% 1/4W	
R921	1-249-417-11	CARBON	1K	5% 1/4W	F
R922	1-249-417-11	CARBON	1K	5% 1/4W	F
R923	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R924	1-249-435-11	CARBON	33K	5% 1/4W	
⚠R925	1-249-393-11	CARBON	10	5% 1/4W	F
⚠R926	1-249-393-11	CARBON	10	5% 1/4W	F
R931	1-247-807-31	CARBON	100	5% 1/4W	
R932	1-247-807-31	CARBON	100	5% 1/4W	
R933	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R934	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R935	1-249-429-11	CARBON	10K	5% 1/4W	
R936	1-249-429-11	CARBON	10K	5% 1/4W	
R937	1-249-417-11	CARBON	1K	5% 1/4W	F
R938	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R939	1-247-807-31	CARBON	100	5% 1/4W	
R940	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R941	1-247-807-31	CARBON	100	5% 1/4W	
R942	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R953	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R954	1-249-437-11	CARBON	47K	5% 1/4W	
⚠R955	1-247-807-31	CARBON	100	5% 1/4W	
⚠R956	1-217-637-00	FUSIBLE	1	5% 1/4W	F
⚠R957	1-217-637-00	FUSIBLE	1	5% 1/4W	F
R958	1-249-427-11	CARBON	6.8K	5% 1/4W	F

Ref. No.	Part No.	Description			Remarks
R963	1-249-381-11	CARBON 1	5% 1/4W	F (E,SP)	
R964	1-249-381-11	CARBON 1	5% 1/4W	F (E,SP)	
		< RELAY >			
RY931	1-515-920-11	RELAY (24V)			
RY932	1-755-142-11	RELAY			
RY933	1-515-920-11	RELAY (24V)			
RY934	1-515-920-11	RELAY (24V)			
RY951	1-755-026-11	RELAY			
		< TERMINAL >			
TM171	1-537-510-11	TERMINAL BOARD (FRONT/CENTER SPEAKER)			
TM371	1-537-510-11	TERMINAL BOARD (REAR/SUPER SPEAKER)			
**********					
*	1-665-244-11	PRIMARY BOARD			
		**********			
	1-533-293-11	FUSE HOLDER			
		< FUSE >			
⚠F902	1-532-388-31	FUSE, TIME LAG (2A)			
⚠F903	1-532-504-31	FUSE, TIME LAG (4A) (E,SP)			
**********					
*	1-665-245-11	SECONDARY BOARD			
		**********			
	1-533-293-11	FUSE HOLDER			
		< FUSE >			
⚠F951	1-532-464-31	FUSE, TIME LAG (2.5A)			
⚠F952	1-532-388-31	FUSE, TIME LAG (2A)			
⚠F953	1-532-388-31	FUSE, TIME LAG (2A)			
⚠F954	1-532-464-31	FUSE, TIME LAG (2.5A)			
⚠F955	1-532-506-31	FUSE, TIME LAG (6.3A)			
⚠F956	1-532-506-31	FUSE, TIME LAG (6.3A)			
**********					
*	1-665-249-11	TEN KEY BOARD			
		**********			
		< CONNECTOR >			
* CN702	1-565-295-11	PLUG, CONNECTOR 4P			
		< RESISTOR >			
R861	1-249-414-11	CARBON	560	5% 1/4W	F
R862	1-249-416-11	CARBON	820	5% 1/4W	F
R863	1-249-417-11	CARBON	1K	5% 1/4W	F
R864	1-249-419-11	CARBON	1.5K	5% 1/4W	F
R865	1-249-421-11	CARBON	2.2K	5% 1/4W	F
R866	1-249-422-11	CARBON	2.7K	5% 1/4W	F
R867	1-249-424-11	CARBON	3.9K	5% 1/4W	F
R868	1-249-426-11	CARBON	5.6K	5% 1/4W	
		< SWITCH >			
S701	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)			
S732	1-554-303-21	SWITCH, TACTILE (9)			
S733	1-554-303-21	SWITCH, TACTILE (8)			
S734	1-554-303-21	SWITCH, TACTILE (7)			
S735	1-554-303-21	SWITCH, TACTILE (6)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description				Remarks
S736	1-554-303-21	SWITCH, TACTILE (5)				
S737	1-554-303-21	SWITCH, TACTILE (4)				
S738	1-554-303-21	SWITCH, TACTILE (3)				
S739	1-554-303-21	SWITCH, TACTILE (2)				
S740	1-554-303-21	SWITCH, TACTILE (1)				
**********						
*	1-665-242-11	WOOFER BOARD				
		**********				
		< CAPACITOR >				
C651	1-126-963-11	ELECT	4.7uF	20%	50V	
C652	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C653	1-162-286-21	CERAMIC	220PF	10%	50V	
C654	1-126-933-11	ELECT	100uF	20%	10V	
C656	1-126-964-11	ELECT	10uF	20%	50V	
C657	1-126-964-11	ELECT	10uF	20%	50V	
C658	1-136-175-00	FILM	0.68uF	5%	50V	
C659	1-136-165-00	FILM	0.1uF	5%	50V	
		< IC >				
IC651	8-759-069-56	IC LM3875-Q				
		< RESISTOR >				
R651	1-249-417-11	CARBON	1K	5%	1/4W	F
R652	1-249-438-11	CARBON	56K	5%	1/4W	
R653	1-249-414-11	CARBON	560	5%	1/4W	F
R654	1-249-438-11	CARBON	56K	5%	1/4W	
⚠R656	1-249-381-11	CARBON	1	5%	1/4W	F
**********						
		MISCELLANEOUS				
		**********				
⚠11	1-575-653-11	CORD, POWER (E)				
⚠11	1-690-608-11	CORD, POWER (AUS)				
⚠11	1-751-520-11	CORD, POWER (UK)				
⚠11	1-769-744-11	CORD, POWER (SP,AEP)				
12	1-569-007-11	ADAPTOR, CONVERSION 2P (E)				
16	1-233-545-11	ENCAPSULATED COMPONENT (E,SP,AUS)				
16	1-693-381-11	TUNER UNIT (AEP,UK)				
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK) (DECK A)				
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE) (DECK B)				
⚠J901	1-526-794-11	OUTLET, AC (AEP,UK,SP,AUS)				
⚠J901	1-526-882-00	OUTLET, AC (E)				
M1	A-2004-409-A	MOTOR ASSY, CAPSTAN				
M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)				
⚠T902	1-431-224-11	TRANSFORMER, POWER (AEP,UK,AUS)				
⚠T902	1-431-225-11	TRANSFORMER, POWER (E,SP)				
**********						

Ref. No.	Part No.	Description	Remarks
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-475-103-11	REMOTE COMMANDER (RM-U575)	
	1-501-536-11	ANTENNA (FM) (AEP,UK)	
	1-501-659-11	ANTENNA (FM) (E,SP,AUS)	
	1-501-721-11	ANTENNA, LOOP	
	3-800-845-31	INSTRUCTION (KCA) (AEP)	
	3-859-749-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH)	
	3-859-749-21	MANUAL, INSTRUCTION (GERMAN/PORTUGUESE) (AEP)	
	3-859-749-31	MANUAL, INSTRUCTION (DUTCH/SWEDISH/ITALIAN) (AEP)	
	4-983-537-01	COVER, BATTERY (for RM-U575)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-685-880-09	SCREW +BVTT 4X6 (S)	
#5	7-621-775-10	SCREW +B 2.6X4	
#7	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#8	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
#9	7-685-862-09	SCREW +BVTT 2.6X6 (S)	
#10	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#11	7-623-921-01	RING, RETAINING, CAPSTAN	
#12	7-621-775-00	SCREW +B 2.6X3	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-960-973-11

Sony Corporation
Home A&V Products Company

97F1676-1
Printed in Japan © 1997.6
Published by General Engineering Dept.
(Shibaura)